Yahoo Group Archive: gccloopantennadesign

Yahoo Group summary: GCC Loop Antenna Design Room II

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2005-08-06 through 2016-05-16

Source WARC: gccloopantennadesign.vnOVf3X.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-11-17T13-36-06Z-14e64e

Messages included in this PDF: 126

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. vlf resonant loop

Yahoo group: gccloopantennadesign
Date: 2005-08-06 19:55:41 UTC
From: Mike Bessonett
Topic: 1 Message: 1

Greetings: My current project is the largest diameter resonant loop I can build with 100 feet of 8 conductor phone cable I got for $10 at R/S. This antenna is for a very low frequency receiver I built with the intention of monitoring sudden ionospheric disturbances (SID). I'm building a 7' diameter hexagonal frame and winding 5 complete turns on it. Then the wires will be spliced in series to give a total on 800 feet. I need help finding the inductance of the loop and a resonant capacitance for 24kHz.Yours sincerely, Mike.

Do you Yahoo!?
Yahoo! Mail - You care about security. So do we.
http://promotions.yahoo.com/new_mail

2. BC PVC loop

Yahoo group: gccloopantennadesign
Date: 2005-10-25 22:24:05 UTC
From: enigma_y_2000
Topic: 2 Message: 2

Hi,

In the past I've built magnetic loop antennas for the BC band, and used wood for the supports. Recently a web search turned up a picture of a PVC BC band loop antenna. I'm now in the process of building it. Sure goes faster than making one from wood.

Regards,

Bob

3. about magnetic antennas

Yahoo group: gccloopantennadesign
Date: 2005-11-25 11:45:29 UTC
From: alhossin_s_m
Topic: 3 Message: 3

Hi
Just I want to ask if any body interested in field of RFID and NFC loop antennas.
Can I generate a magnetic radiation field from half wavelength dipole?
If so how?
If the null of the loop antenna radiation pattern happen at the loop centre, how the RFID system activated? And how far the communication space is?
thanks

4. New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 18:33:19 UTC
From: Frank Sumption
Topic: 4 Message: 4

Hi All;

I joined here because I am in need of an atenna that may help
cancelling an annoying static problem in my area.

Frank

5. Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 19:14:21 UTC
From: John Popelish
Topic: 4 Message: 5

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
<fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.

What frequency or band are you receiving?

What kind of antenna is now giving you the interferance?

6. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 19:20:52 UTC
From: Sumption Frank
Topic: 4 Message: 6

The whole AM band. I'm using just a wire antenna. The receiver is a tuner module from a car stereo. These tuners are more sensitive than the ordinary radio, and can be voltage tuned, a pot instead of a capacitor.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
Sent: Friday, December 16, 2005 12:14 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: New member.

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption" <fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.

What frequency or band are you receiving?

What kind of antenna is now giving you the interferance?

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to: gccloopantennadesign-unsubscribe@yahoogroups.com <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

---

7. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 19:53:21 UTC
From: KY1K
Topic: 4 Message: 7

What type of neighborhood do you live in Frank??? If it's a rural setting, the chances are the interference is right in your own house...or on the AC line itself.

If the interference subsides or gets worse according to humidity, it might be a problem on the power pole(s) nearly that only your electric provider can fix.

Rather than putting up an antenna to circumvent the noise, you might be more effective by searching out the source and trying to eliminate the source.

Got some more info about the type of neighborhood and whether the noise is worse when it's dry or wet?

Art

At 02:20 PM 12/16/2005, you wrote:

> The whole AM band. I'm using just a wire antenna. The receiver is
> a tuner module from a car stereo. These tuners are more sensitive
> than the ordinary radio, and can be voltage tuned, a pot instead of
> a capacitor.
>
> Frank
>
>
>----------
>From: gccloopantennadesign@yahoogroups.com
>[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
>Sent: Friday, December 16, 2005 12:14 PM
>To: gccloopantennadesign@yahoogroups.com
>Subject: [gccloopantennadesign] Re: New member.
>
>--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
><fsumption@l...> wrote:
> >
> > Hi All;
> >
> > I joined here because I am in need of an atenna that may help
> > cancelling an annoying static problem in my area.
>
>What frequency or band are you receiving?
>
>What kind of antenna is now giving you the interferance?
>

>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group
> "<http://groups.yahoo.com/group/gccloopantennadesign>gccloopantennadesign"
> on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>gccloopante
nnadesign-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

8. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 20:15:10 UTC
From: Sumption Frank
Topic: 4 Message: 8

Hi Art;

It's suburban Denver. At times there's a static type noise that covers almost the entire AM band. What's weird is it seems to be re-broadcast by the house wiring, I can take a pocket radio and trace the noise to the wiring, but it's not from the house, and it's not always present. I'm a ham, and I don't get this noise on the hf ham bands, too munch anyway. The noise seems predominate during fall, and into late spring, not too bad during the summer. KC0FS

I make a very unusual type of receiver based on AM radio, for the most part. http://franksumption.tripod.com/

I'm hoping a loop may help, maybe it can be oriented to null out the noise?

Frank

From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
Sent: Friday, December 16, 2005 12:53 PM
To: gccloopantennadesign@yahoogroups.com
Subject: RE: [gccloopantennadesign] Re: New member.

What type of neighborhood do you live in Frank??? If it's a rural setting, the chances are the interference is right in your own house...or on the AC line itself.

If the interference subsides or gets worse according to humidity, it might be a problem on the power pole(s) nearly that only your electric provider can fix.

Rather than putting up an antenna to circumvent the noise, you might be more effective by searching out the source and trying to eliminate the source.

Got some more info about the type of neighborhood and whether the noise is worse when it's dry or wet?

Art

At 02:20 PM 12/16/2005, you wrote:

The whole AM band. I'm using just a wire antenna. The receiver is a tuner module from a car stereo. These tuners are more sensitive than the ordinary radio, and can be voltage tuned, a pot instead of a capacitor.

Frank

From: gccloopantennadesign@yahoogroups.com [
mailto:gccloopantennadesign@yahoogroups.com
<mailto:gccloopantennadesign@yahoogroups.com>] On Behalf Of John
Popelish
Sent: Friday, December 16, 2005 12:14 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: New member.

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
<fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.

What frequency or band are you receiving?

What kind of antenna is now giving you the interferance?

YAHOO! GROUPS LINKS

* Visit your group " gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
*
* To unsubscribe from this group, send an email to:
* gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>
*
* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

SPONSORED LINKS

Icom ham radio
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w2
=Ham+radio&c=2&s=35&.sig=g4cbHfNCBsBjP0-xqdpm7w>

Ham radio
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Icom+ham+radio&w2=Ham+
radio&c=2&s=35&.sig=pvINtXZjbCdkJBgKhkVaPA>

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

9. Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 21:15:42 UTC
From: John Popelish
Topic: 4 Message: 9

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> The whole AM band. I'm using just a wire antenna. The receiver is a
> tuner module from a car stereo. These tuners are more sensitive than the
> ordinary radio, and can be voltage tuned, a pot instead of a capacitor.

Shielded magnetic loop antennas are very good at rejecting local
electric field noise. This can be in the form of a loop wound through
a slotted copper pipe loop (with a break in the circumference, to keep
the pipe from effectively shorting out the wire loops) or a ferrite
rod with a coil wrapped around it, and covered with a non shorted wrap
of foil, like brass shim stock. In either case, the shield should be
grounded to the coax shield used to carry the signal back to the
receiver. You will probably get best noise rejection by arring a
tuning capacitor across the coil, where the coax connects, to resonate
the loop at the band you are receiving. This will help knock down out
of banc signals that may be overloading a sensitive front end.

Here is an article that compares the noise performance of a shielded
magnetic loop antenna to an amplified whip.
http://www.wellbrook.uk.com/reviews/SWM2001Nov.html

10. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 21:34:33 UTC
From: Sumption Frank
Topic: 4 Message: 10

That should help. Thanks!

Frank

From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
Sent: Friday, December 16, 2005 2:16 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: New member.

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> The whole AM band. I'm using just a wire antenna. The receiver is a
> tuner module from a car stereo. These tuners are more sensitive than
the
> ordinary radio, and can be voltage tuned, a pot instead of a
capacitor.

Shielded magnetic loop antennas are very good at rejecting local
electric field noise. This can be in the form of a loop wound through
a slotted copper pipe loop (with a break in the circumference, to keep
the pipe from effectively shorting out the wire loops) or a ferrite
rod with a coil wrapped around it, and covered with a non shorted wrap
of foil, like brass shim stock. In either case, the shield should be
grounded to the coax shield used to carry the signal back to the
receiver. You will probably get best noise rejection by arring a
tuning capacitor across the coil, where the coax connects, to resonate
the loop at the band you are receiving. This will help knock down out
of banc signals that may be overloading a sensitive front end.

Here is an article that compares the noise performance of a shielded
magnetic loop antenna to an amplified whip.
http://www.wellbrook.uk.com/reviews/SWM2001Nov.html

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc

ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

11. RE: [gccloopantennadesign] New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-16 22:44:52 UTC
From: Sumption Frank
Topic: 4 Message: 11

I made a small loop with a wooden frame using 2 foot lengths of 1 X 2 poplar scrap from here at work. I used # 28 magnet wire for the main coil, and #20 for the "pick up" coil. I'm using an old three section 365 pf cap. to resonate it. The main coil is ten turns, and the pick up, 2 turns over the main. I had the stuff here at work, so thought I would try this first, just kind of get my feet wet with it. I'll take it home, and send a pix in Monday.

I found the basic design off some AM loop pages I found on the web. I did see one for a shield loop using coax, which I have in my junk box, so might try that.

I've tried single turn transmitting loops some years ago, but I couldn't get out on them. I live in a dip, or gulch, and the best antenna so far is a dipole, just 50 feet on each side, fed with 300 ohm twin lead and run through a tuner. Need just a high enough radiation angle to get over the top of the hill.

Thanks John!

Frank

From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Frank
Sumption
Sent: Friday, December 16, 2005 11:33 AM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] New member.

Hi All;

I joined here because I am in need of an atenna that may help cancelling an annoying static problem in my area.

Frank

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to: gccloopantennadesign-unsubscribe@yahoogroups.com <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc

ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

12. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-17 02:13:37 UTC
From: KY1K
Topic: 4 Message: 12

OK Frank,

I've been to Hell and back regarding line noise due to poorly maintained power line hardware. Basically, any leak radiates, so they can be problematic, especially at LF. In the 80's, I was just short of calling a lawyer on CMP (Central Maine Power), the noise was so bad it was interfering on 2 meters!!!! They finally saw it my way, but it was an uphill battle.

The hardware on the poles is magnetic, and since the current flowing in the mains is so high, hardware can actually vibrate if it's not tight and since the magnetic filed is strong, some induction takes place. Since the wooden poles tend to shrink with age, the hardware is forever loosening up! So, any loose hardware can cause very significant noise, it's not just faulty insulators you have to worry about!

I strongly suggest you find the noise source rather than build an antenna to make it tolerable.

Since you say it appears to be coming from the line, your problem might be the line itself or it still could be an appliance in your house.

Take your portable radio and set somewhere near the center of your house while observing the noise. One at a time, turn off the breakers to the individual circuits and observe weather the noise drops out totally,. If it does, your noise source is on that circuit and you can unplug things one at time to see what is making the noise. Fish tank heaters are NOTORIOUS by the way:>:

If you don't get a major change by doing this, then you can be fairly confident the noise is coming from the line and it isn't anything in your house.

Noise can propagate for hundreds of feet along the powerline, so a powerline source can be quite a distance away. If you have to go outside to check the powerlines, use a small sledge hammer and your portable radio. Tap on the pole fairly firmly and observe whether the noise drops out completely or nearly so. It's not unusual for a tap on the pole to produce some audible changes very briefly, so you are looking for the noise to drop out completely or to get MUCH worse briefly.

Hunting noise on the powerlines can be complicated and involved, but you should check your own house first.

In my case, I can go to to the road and switch the main power feed to my house off. There is a 700 foot line between the road and the house, so isolating the high voltage line at the road can really give

me a lot of information. Most are not fortunate to have a long power
run and a dedicated high voltage disconnect at the road though.

I'd hate to see you build a different antenna when the noise source
might be right in your own house...so a quick and easy check is suggested.

Regards,

Art

At 03:15 PM 12/16/2005, you wrote:

>Hi Art;
>
> It's suburban Denver. At times there's a static type noise that
> covers almost the entire AM band. What's weird is it seems to be
> re-broadcast by the house wiring, I can take a pocket radio and
> trace the noise to the wiring, but it's not from the house, and
> it's not always present. I'm a ham, and I don't get this noise on
> the hf ham bands, too munch anyway. The noise seems predominate
> during fall, and into late spring, not too bad during the summer. KC0FS
>
> I make a very unusual type of receiver based on AM radio, for the
> most part. <http://franksumption.tripod.com/>http://franksumption.tripod.com/
>
> I'm hoping a loop may help, maybe it can be oriented to null out the noise?
>
> Frank
>
>
>
>
>
>
>----------
>From: gccloopantennadesign@yahoogroups.com
>[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
>Sent: Friday, December 16, 2005 12:53 PM
>To: gccloopantennadesign@yahoogroups.com
>Subject: RE: [gccloopantennadesign] Re: New member.
>
>What type of neighborhood do you live in Frank??? If it's a rural
>setting, the chances are the interference is right in your own
>house...or on the AC line itself.
>
>If the interference subsides or gets worse according to humidity, it
>might be a problem on the power pole(s) nearly that only your
>electric provider can fix.
>
>Rather than putting up an antenna to circumvent the noise, you might
>be more effective by searching out the source and trying to

>eliminate the source.
>
>Got some more info about the type of neighborhood and whether the
>noise is worse when it's dry or wet?
>
>Art
>
>At 02:20 PM 12/16/2005, you wrote:
>
>
> The whole AM band. I'm using just a wire antenna. The receiver is
> a tuner module from a car stereo. These tuners are more sensitive
> than the ordinary radio, and can be voltage tuned, a pot instead of
> a capacitor.
>
> Frank
>
>
>----------
>From: gccloopantennadesign@yahoogroups.com [
>mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
>Sent: Friday, December 16, 2005 12:14 PM
>To: gccloopantennadesign@yahoogroups.com
>Subject: [gccloopantennadesign] Re: New member.
>
>--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
><fsumption@l...> wrote:
> >
> > Hi All;
> >
> > I joined here because I am in need of an atenna that may help
> > cancelling an annoying static problem in my area.
>
>What frequency or band are you receiving?
>
>What kind of antenna is now giving you the interferance?
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/gccloopantennadesign>
> gccloopantennadesign" on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>

> gccloopantennadesign-unsubscribe@yahoogroups.com
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group
> "<http://groups.yahoo.com/group/gccloopantennadesign>gccloopantennadesign"
> on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>gccloopante
nnadesign-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

13. Antenna tests.

Yahoo group: gccloopantennadesign
Date: 2005-12-17 18:32:04 UTC
From: Frank Sumption
Topic: 13 Message: 13

Hi All;

I tried my first loop with my receiver system. There's pictures in the photos section, and voices in a folder "Franks voices". The unit the antenna is sitting is one of the ghost receivers I've been trying to make nmore reliable.

I realize not all will agree with my system, that's fine, it's still just an experiment. Not everyone can hear these voices for some reason. It's kind of like learning to listen to single side band, it's gets easier with practice.

The antenna helped with reception, and I think it cut down on some of the noise because it's directional.

I did connect the antenna to my Radio Shack DX-440, and could get as far east as Minnesota, and as far west as San Fransisco, and was listening to Coast to Coast out of Omaha. I used a varactor diode to resonate the antenna, since I need to be able to track the receiver's random tuning voltage with the antenna. In the pix you'll see an old three secion cap I used for initial tests. The varactor is mounted on the small perf board, and I mounted a pot for tuning. For the first test I was tracking the receiver's tuning with the pot, manually. The receiver has a panel meter that displays the tuning voltage so the rate can be adjusted.

Basically the receiver is a source of randomly developed audio, which sprits/entities can use to form their voices. Some of the contacts do seem to come dierectly from the receiver. The randomness is a key to the communication, I'm not sure exactly how it works.

There is always that woo-woo factor with this, but keep in mind, Edison, the guy that gave us light, and numerous othe rinventions, was working on this concept, communication with the dead, he just didn't have the solid state advantage, and electronics was new in his time.

Frank

14. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-17 18:43:53 UTC
From: Sumption Frank
Topic: 4 Message: 14

Thanks Art;

Yeah, I used a pocket radio to trace the noise on the power line back to the meter, but I'm not sure the house wiring isn't acting like an antenna, and just picking it up. Anyway, the first antenna works pretty well considering is was quickly thrown together. It improved the reception of my system. The noise isn't too bad on HF, since I usually don't go below 30 meters. The noise seems to be just this whole area, I was giving a demonstration of my system earlier this month near down town Denver, and got the noise there too.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
Sent: Friday, December 16, 2005 7:14 PM
To: gccloopantennadesign@yahoogroups.com
Subject: RE: [gccloopantennadesign] Re: New member.

OK Frank,

I've been to Hell and back regarding line noise due to poorly maintained power line hardware. Basically, any leak radiates, so they can be problematic, especially at LF. In the 80's, I was just short of calling a lawyer on CMP (Central Maine Power), the noise was so bad it was interfering on 2 meters!!!! They finally saw it my way, but it was an uphill battle.

The hardware on the poles is magnetic, and since the current flowing in the mains is so high, hardware can actually vibrate if it's not tight and since the magnetic filed is strong, some induction takes place. Since the wooden poles tend to shrink with age, the hardware is forever loosening up! So, any loose hardware can cause very significant noise, it's not just faulty insulators you have to worry about!

I strongly suggest you find the noise source rather than build an antenna to make it tolerable.

Since you say it appears to be coming from the line, your problem might be the line itself or it still could be an appliance in your house.

Take your portable radio and set somewhere near the center of your house while observing the noise. One at a time, turn off the breakers to the individual circuits and observe weather the noise drops out totally,. If it does, your noise source is on that circuit and you can unplug things

one at time to see what is making the noise. Fish tank heaters are NOTORIOUS by the way:>:

If you don't get a major change by doing this, then you can be fairly confident the noise is coming from the line and it isn't anything in your house.

Noise can propagate for hundreds of feet along the powerline, so a powerline source can be quite a distance away. If you have to go outside to check the powerlines, use a small sledge hammer and your portable radio. Tap on the pole fairly firmly and observe whether the noise drops out completely or nearly so. It's not unusual for a tap on the pole to produce some audible changes very briefly, so you are looking for the noise to drop out completely or to get MUCH worse briefly.

Hunting noise on the powerlines can be complicated and involved, but you should check your own house first.

In my case, I can go to to the road and switch the main power feed to my house off. There is a 700 foot line between the road and the house, so isolating the high voltage line at the road can really give me a lot of information. Most are not fortunate to have a long power run and a dedicated high voltage disconnect at the road though.

I'd hate to see you build a different antenna when the noise source might be right in your own house...so a quick and easy check is suggested.

Regards,

Art

At 03:15 PM 12/16/2005, you wrote:

Hi Art;

It's suburban Denver. At times there's a static type noise that covers almost the entire AM band. What's weird is it seems to be re-broadcast by the house wiring, I can take a pocket radio and trace the noise to the wiring, but it's not from the house, and it's not always present. I'm a ham, and I don't get this noise on the hf ham bands, too munch anyway. The noise seems predominate during fall, and into late spring, not too bad during the summer. KC0FS

I make a very unusual type of receiver based on AM radio, for the most part. http://franksumption.tripod.com/

I'm hoping a loop may help, maybe it can be oriented to null out the noise?

Frank

From: gccloopantennadesign@yahoogroups.com [
mailto:gccloopantennadesign@yahoogroups.com
<mailto:gccloopantennadesign@yahoogroups.com>] On Behalf Of KY1K
Sent: Friday, December 16, 2005 12:53 PM
To: gccloopantennadesign@yahoogroups.com
Subject: RE: [gccloopantennadesign] Re: New member.

What type of neighborhood do you live in Frank??? If it's a rural
setting, the chances are the interference is right in your own
house...or on the AC line itself.

If the interference subsides or gets worse according to humidity, it
might be a problem on the power pole(s) nearly that only your electric
provider can fix.

Rather than putting up an antenna to circumvent the noise, you might be
more effective by searching out the source and trying to eliminate the
source.

Got some more info about the type of neighborhood and whether the noise
is worse when it's dry or wet?

Art

At 02:20 PM 12/16/2005, you wrote:

The whole AM band. I'm using just a wire antenna. The receiver is a
tuner module from a car stereo. These tuners are more sensitive than the
ordinary radio, and can be voltage tuned, a pot instead of a capacitor.

Frank

From: gccloopantennadesign@yahoogroups.com [
mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
Sent: Friday, December 16, 2005 12:14 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: New member.

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
<fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.

What frequency or band are you receiving?

What kind of antenna is now giving you the interferance?

YAHOO! GROUPS LINKS

* Visit your group " gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
*
* To unsubscribe from this group, send an email to:
* gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>
*
* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

YAHOO! GROUPS LINKS

* Visit your group " gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
*
* To unsubscribe from this group, send an email to:
* gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>
*
* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

SPONSORED LINKS

Icom ham radio
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w2
=Ham+radio&c=2&s=35&.sig=g4cbHfNCBsBjP0-xqdpm7w>

Ham radio
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Icom+ham+radio&w2=Ham+
radio&c=2&s=35&.sig=pvINtXZjbCdkJBgKhkVaPA>

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

_____

15. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-17 20:15:02 UTC
From: KY1K
Topic: 4 Message: 15

OK Frank,

Yes, that sounds like it's coming in on the powerline for sure. Powerlines are excellent antennas at LF and the indication that the noise seems to come from everywhere is a strong indication it's the powerline and your house wiring is acting as an antenna.

However.....there is hope.

How far are you from the step down transformer??? LF and HF noise tends to stop at these transformers, so testing with your portable receiver on each side of the transformer can be very informative as the transformer acts like a big rf choke at LF and HF.

So, you can still make progress tracking down the noise if you are of a mind to do so.

When I was battling CMP back in the 80, the technician for the power company didn't know anything about RF and I had to teach him a lot. He had a fantastic spectrum analyzer and a bunch of various antennas to hook onto it. It was a fine tool and worked really well for tracking noise. With a narrowband receiver such as your portable AM band receiver, the noise can be heard fine. But, with powerline systems, there are usually multiple noise sources! Each noise source has it's own distinctive 'signature' which allows the user of the spectrum analyzer to determine where each individual noise source is coming from because you can see each noise source and how it varies as you move about the line and stress the hardware.

In my case, we began to make progress when we had a line crew available to fix the individual problems as we identified them. Treating the powerline system as though there was only one noise source was huge mistake because that's not how it works! Once I got the CMP tech trained how to use the spectrum analyzer and clued into the concept of using the display to characterize individual line noise displays, he did much better. The big break came when he finally realized he wasn't after one single noise source! Somehow he had been told or trained that noise sources were 'singluar'.

The guy spent weeks (literally) looking for ONE noise source. He would hear the noise change when he tapped on the poles, but because it never went away completely, he refused to ask the line crew to work on that individual pole! It was this 'mono noise source' concept that proved to be the problem....

As my problem subsided, the tech was happy to ask for help understanding the problems and I was glad to bring him up to speed. I

didn't mind spending time with him and we actually located a
malfunctioning florescent lamp ballast in my neighbors house because
it had a relatively narrowband display and was 'distinctive' in that
regard. After my problem was more or less fixed, he went across town
and resolved another very long standing noise complaint...from
another ham who had nearly given up hope.

Drop me a line off list if you want to pursue tracking down the noise
source(s) and I'll be glad to help.

Now, if you want an awesome LF antenna and have the room, try putting
up a beverage antenna!!!! Once you hear the beverage at work, you'll
never again want to settle for a loop antenna!

Regards,

Art

At 01:43 PM 12/17/2005, you wrote:

>Thanks Art;
>
> Yeah, I used a pocket radio to trace the noise on the power line
> back to the meter, but I'm not sure the house wiring isn't acting
> like an antenna, and just picking it up. Anyway, the first antenna
> works pretty well considering is was quickly thrown together. It
> improved the reception of my system. The noise isn't too bad on HF,
> since I usually don't go below 30 meters. The noise seems to be
> just this whole area, I was giving a demonstration of my system
> earlier this month near down town Denver, and got the noise there too.
>
>
>Frank
>

16. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-19 14:34:12 UTC
From: Sumption Frank
Topic: 4 Message: 16

Thanks Art, the only transformer is on the pole, maybe a hundred feet from the house. The little loop antenna has very significant affect on the amount of noise that comes through, even if the antenna tuning if way off.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
Sent: Saturday, December 17, 2005 1:15 PM
To: gccloopantennadesign@yahoogroups.com
Subject: RE: [gccloopantennadesign] Re: New member.

OK Frank,

Yes, that sounds like it's coming in on the powerline for sure. Powerlines are excellent antennas at LF and the indication that the noise seems to come from everywhere is a strong indication it's the powerline and your house wiring is acting as an antenna.

However.....there is hope.

How far are you from the step down transformer??? LF and HF noise tends to stop at these transformers, so testing with your portable receiver on each side of the transformer can be very informative as the transformer acts like a big rf choke at LF and HF.

So, you can still make progress tracking down the noise if you are of a mind to do so.

When I was battling CMP back in the 80, the technician for the power company didn't know anything about RF and I had to teach him a lot. He had a fantastic spectrum analyzer and a bunch of various antennas to hook onto it. It was a fine tool and worked really well for tracking noise. With a narrowband receiver such as your portable AM band receiver, the noise can be heard fine. But, with powerline systems, there are usually multiple noise sources! Each noise source has it's own distinctive 'signature' which allows the user of the spectrum analyzer to determine where each individual noise source is coming from because you can see each noise source and how it varies as you move about the line and stress the hardware.

In my case, we began to make progress when we had a line crew available to fix the individual problems as we identified them. Treating the powerline system as though there was only one noise source was huge

mistake because that's not how it works! Once I got the CMP tech trained how to use the spectrum analyzer and clued into the concept of using the display to characterize individual line noise displays, he did much better. The big break came when he finally realized he wasn't after one single noise source! Somehow he had been told or trained that noise sources were 'singluar'.

The guy spent weeks (literally) looking for ONE noise source. He would hear the noise change when he tapped on the poles, but because it never went away completely, he refused to ask the line crew to work on that individual pole! It was this 'mono noise source' concept that proved to be the problem....

As my problem subsided, the tech was happy to ask for help understanding the problems and I was glad to bring him up to speed. I didn't mind spending time with him and we actually located a malfunctioning florescent lamp ballast in my neighbors house because it had a relatively narrowband display and was 'distinctive' in that regard. After my problem was more or less fixed, he went across town and resolved another very long standing noise complaint...from another ham who had nearly given up hope.

Drop me a line off list if you want to pursue tracking down the noise source(s) and I'll be glad to help.

Now, if you want an awesome LF antenna and have the room, try putting up a beverage antenna!!!! Once you hear the beverage at work, you'll never again want to settle for a loop antenna!

Regards,

Art

At 01:43 PM 12/17/2005, you wrote:

Thanks Art;

Yeah, I used a pocket radio to trace the noise on the power line back to the meter, but I'm not sure the house wiring isn't acting like an antenna, and just picking it up. Anyway, the first antenna works pretty well considering is was quickly thrown together. It improved the reception of my system. The noise isn't too bad on HF, since I usually don't go below 30 meters. The noise seems to be just this whole area, I was giving a demonstration of my system earlier this month near down town Denver, and got the noise there too.

Frank

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

17. The noise

Yahoo group: gccloopantennadesign
Date: 2005-12-20 17:34:27 UTC
From: Sumption Frank
Topic: 17 Message: 17

Well the other night when I first tried the antenna, there wasn't much noise, so I thought the antenna really helped, but must have been just conditions. Last night was bad for noise, but I turned the antenna so the broad side was East-West, and that minimized the noise, so the antenna does help. I just made a frame for one with 40 in spreaders (cross arms). It's not just of my ghost project, I like listening to AM radio as well, especially when the local station changes the programming, and I get the topics I like.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
Sent: Saturday, December 17, 2005 1:15 PM
To: gccloopantennadesign@yahoogroups.com
Subject: RE: [gccloopantennadesign] Re: New member.

OK Frank,

Yes, that sounds like it's coming in on the powerline for sure. Powerlines are excellent antennas at LF and the indication that the noise seems to come from everywhere is a strong indication it's the powerline and your house wiring is acting as an antenna.

However.....there is hope.

How far are you from the step down transformer??? LF and HF noise tends to stop at these transformers, so testing with your portable receiver on each side of the transformer can be very informative as the transformer acts like a big rf choke at LF and HF.

So, you can still make progress tracking down the noise if you are of a mind to do so.

When I was battling CMP back in the 80, the technician for the power company didn't know anything about RF and I had to teach him a lot. He had a fantastic spectrum analyzer and a bunch of various antennas to hook onto it. It was a fine tool and worked really well for tracking noise. With a narrowband receiver such as your portable AM band receiver, the noise can be heard fine. But, with powerline systems, there are usually multiple noise sources! Each noise source has it's own distinctive 'signature' which allows the user of the spectrum analyzer to determine where each individual noise source is coming from because you can see each noise source and how it varies as you move about the line and stress the hardware.

In my case, we began to make progress when we had a line crew available to fix the individual problems as we identified them. Treating the powerline system as though there was only one noise source was huge mistake because that's not how it works! Once I got the CMP tech trained how to use the spectrum analyzer and clued into the concept of using the display to characterize individual line noise displays, he did much better. The big break came when he finally realized he wasn't after one single noise source! Somehow he had been told or trained that noise sources were 'singluar'.

The guy spent weeks (literally) looking for ONE noise source. He would hear the noise change when he tapped on the poles, but because it never went away completely, he refused to ask the line crew to work on that individual pole! It was this 'mono noise source' concept that proved to be the problem....

As my problem subsided, the tech was happy to ask for help understanding the problems and I was glad to bring him up to speed. I didn't mind spending time with him and we actually located a malfunctioning florescent lamp ballast in my neighbors house because it had a relatively narrowband display and was 'distinctive' in that regard. After my problem was more or less fixed, he went across town and resolved another very long standing noise complaint...from another ham who had nearly given up hope.

Drop me a line off list if you want to pursue tracking down the noise source(s) and I'll be glad to help.

Now, if you want an awesome LF antenna and have the room, try putting up a beverage antenna!!!! Once you hear the beverage at work, you'll never again want to settle for a loop antenna!

Regards,

Art

At 01:43 PM 12/17/2005, you wrote:

Thanks Art;

Yeah, I used a pocket radio to trace the noise on the power line back to the meter, but I'm not sure the house wiring isn't acting like an antenna, and just picking it up. Anyway, the first antenna works pretty well considering is was quickly thrown together. It improved the reception of my system. The noise isn't too bad on HF, since I usually don't go below 30 meters. The noise seems to be just this whole area, I was giving a demonstration of my system earlier this month near down town Denver, and got the noise there too.

Frank

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

18. Bigger, and smaller, isn't better.

Yahoo group: gccloopantennadesign
Date: 2005-12-21 19:21:22 UTC
From: Sumption Frank
Topic: 18 Message: 18

I tried making a spiral with 40 inch spreaders yesterday, the performance wasn't as good as the first antenna with the 24 inch spreaders. I cut it down today, and I'll re-string the wire tonight. I tried a half size model the day before wouldn't resonate at all in the AM band. I don't usually do any calculating, since all of the parts are right out of the junk box, and of unknown values.

Frank

19. Spirals?

Yahoo group: gccloopantennadesign
Date: 2005-12-22 15:09:15 UTC
From: Sumption Frank
Topic: 19 Message: 19

They don't act the same as the antennas with the flat windings. I had to add wire to get one to resonate with the tuning cap I was using. This antenna is for normal radio. I'll be going to visit the in-laws, and can't get the stations I like out of Denver, from Grand Junction, but there is one from Albuquerque at 770 khz I like to listen to when I can get it, and another at 1110 KHZ from Nebraska. I use the Radio Shack DX-440, since it has an external antenna jack, but I guess I could also use the Alinco as well.

The spiral helps cut the noise even more than the other coil form, helical wound(?) It even cuts the noise from the soldering iron temp control circuit. I picked up what the guy at a swapfest called a suitcase capacitor, both sets of plates move, and are gear driven by a center shaft. That's the one I chose for the spiral antenna, but I don't know it's value. I started with 10 turns on 24 inch spreaders, 17 inches across the arms, but had to double up the windings so five of the turns are doubled, to get it to work across the AM band. Took me till 1 this morning! I tried a two turn pick up loop, but one turn seems more selective.

Frank

From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Frank Sumption
Sent: Friday, December 16, 2005 11:33 AM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] New member.

Hi All;

I joined here because I am in need of an atenna that may help cancelling an annoying static problem in my area.

Frank

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to: gccloopantennadesign-unsubscribe@yahoogroups.com <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc

ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

20. Re: Spirals?

Yahoo group: gccloopantennadesign
Date: 2005-12-22 15:32:56 UTC
From: John Popelish
Topic: 19 Message: 20

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
(snip)
> The spiral helps cut the noise even more than the other coil form,
> helical wound(?) It even cuts the noise from the soldering iron temp
> control circuit.
(snip)

Please try reversing the two leads from the spiral. I think it should be most self shielding when the outside turn is the end that is grounded at the radio. Connected with the inner turn as the grounded one, and it should be less self shielding than a helix.

The helix should be the quieter if the feed line and radio have a truly balanced structure that responds only to the difference betyween the two signals, and ignores any signal common to both.

21. RE: [gccloopantennadesign] Re: Spirals?

Yahoo group: gccloopantennadesign
Date: 2005-12-22 15:55:24 UTC
From: Sumption Frank
Topic: 19 Message: 21

Thanks;

Yeah, looking around the web this morning I found some things I can do better. I was using a separate pick up loop. I'd like to try larger antennas, but size is a problem in my little basement shop. I don't have a receiver with a balanced input, but maybe I could use a balun, or an antenna tuner.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of John Popelish
Sent: Thursday, December 22, 2005 8:33 AM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: Spirals?

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank" <fsumption@l...> wrote:
(snip)
> The spiral helps cut the noise even more than the other coil form,
> helical wound(?) It even cuts the noise from the soldering iron temp
> control circuit.
(snip)

Please try reversing the two leads from the spiral. I think it should be most self shielding when the outside turn is the end that is grounded at the radio. Connected with the inner turn as the grounded one, and it should be less self shielding than a helix.

The helix should be the quieter if the feed line and radio have a truly balanced structure that responds only to the difference betyween the two signals, and ignores any signal common to both.

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to: gccloopantennadesign-unsubscribe@yahoogroups.com <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

_____

22. Re: Spirals?

Yahoo group: gccloopantennadesign
Date: 2005-12-22 15:59:22 UTC
From: John Popelish
Topic: 19 Message: 22

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
(snip)
>I'd like to try larger
> antennas, but size is a problem in my little basement shop.
(snip)

If you have the wall space, look for a large framed painting at
Walmart or yard sales, to hang on the wall. You can hide a nice,
large, loop antenna wound on the back of the frame.

23. Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-26 22:24:57 UTC
From: passn_thru2
Topic: 4   Message: 23

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
<fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.
>
> Frank
>
%%

here are a few.. you can also Google..'variometer'

http://www.shcmarder.com/radios/crystal/11.html

http://www.qsl.net/in3nodt/variodes.html

http://www.radio.mcmail.com/vario-xtal.html

http://www.crystalradio.net/crystalsets/hassell/index.shtml

you may need to hook up a series of variometers to cancel out all
the stations in an active area.. another way to help is set up a
more selective antenna system. a tap every 5 turns.. or so,

24. Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-26 22:30:14 UTC
From: passn_thru2
Topic: 4 Message: 24

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> Hi Art;
>
>
>
> It's suburban Denver. At times there's a static type noise that
covers
> almost the entire AM band. What's weird is it seems to be re-
broadcast
> by the house wiring, I can take a pocket radio and trace the noise
to
> the wiring, but it's not from the house, and it's not always
present.
> I'm a ham, and I don't get this noise on the hf ham bands, too
munch
> anyway. The noise seems predominate during fall, and into late
spring,
> not too bad during the summer. KC0FS
>
>
>
> I make a very unusual type of receiver based on AM radio, for the
most
> part. http://franksumption.tripod.com/
>
>
>
> I'm hoping a loop may help, maybe it can be oriented to null out
the
> noise?
>
>
>
> Frank
> ##

maybe get a tester that checks if the ground/common and hot wires
are hooked up properly on each socket in the house.. i got one at
Lowes for $4.. I got it to check the Ground so i could use it on my
crystal sets
>
>
>

>
>
>
>
>
>
>
> _____
>
> From: gccloopantennadesign@yahoogroups.com
> [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
> Sent: Friday, December 16, 2005 12:53 PM
> To: gccloopantennadesign@yahoogroups.com
> Subject: RE: [gccloopantennadesign] Re: New member.
>
>
>
> What type of neighborhood do you live in Frank??? If it's a rural
> setting, the chances are the interference is right in your own
> house...or on the AC line itself.
>
> If the interference subsides or gets worse according to humidity,
it
> might be a problem on the power pole(s) nearly that only your
electric
> provider can fix.
>
> Rather than putting up an antenna to circumvent the noise, you
might be
> more effective by searching out the source and trying to eliminate
the
> source.
>
> Got some more info about the type of neighborhood and whether the
noise
> is worse when it's dry or wet?
>
> Art
>
> At 02:20 PM 12/16/2005, you wrote:
>
>
>
>
>
> The whole AM band. I'm using just a wire antenna. The receiver is
a
> tuner module from a car stereo. These tuners are more sensitive
than the
> ordinary radio, and can be voltage tuned, a pot instead of a
capacitor.

>
> Frank
>
>
> _____
>
> From: gccloopantennadesign@yahoogroups.com [
> mailto:gccloopantennadesign@yahoogroups.com
> <mailto:gccloopantennadesign@yahoogroups.com>] On Behalf Of John
> Popelish
> Sent: Friday, December 16, 2005 12:14 PM
> To: gccloopantennadesign@yahoogroups.com
> Subject: [gccloopantennadesign] Re: New member.
>
> --- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
> <fsumption@l...> wrote:
> >
> > Hi All;
> >
> > I joined here because I am in need of an atenna that may help
> > cancelling an annoying static problem in my area.
>
> What frequency or band are you receiving?
>
> What kind of antenna is now giving you the interferance?
>
>
>
>
>
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group " gccloopantennadesign
> <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * gccloopantennadesign-unsubscribe@yahoogroups.com
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
subject=Unsubsc
> ribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/> .
>
>
>
> _____

>
>
>
> SPONSORED LINKS
>
> Icom ham radio
> <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w2
> =Ham+radio&c=2&s=35&.sig=g4cbHfNCBsBjP0-xqdpm7w>
>
> Ham radio
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Icom+ham+radio&w2=Ham+
> radio&c=2&s=35&.sig=pvINtXZjbCdkJBgKhkVaPA>
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "gccloopantennadesign
> <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
>
> * To unsubscribe from this group, send an email to:
> gccloopantennadesign-unsubscribe@yahoogroups.com
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
subject=Unsubsc
> ribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/> .
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>

25. RE: [gccloopantennadesign] Re: New member.

Yahoo group: gccloopantennadesign
Date: 2005-12-27 17:13:57 UTC
From: Sumption Frank
Topic: 4   Message: 25

Thanks, I'm not sure if that would help, but it's interesting. My
application of a radio receiver is different than what most use it for.
I have to be able to randomly scan the entire AM band, fairly rapidly,
to produce a randomly generated raw audio without a lot of whole phases,
or broadcast frags, as I call them. The tuned loop helps, and "the
guys" say to just "peak the middle", so I may not have to worry about
tuning the antenna over the entire band.

Frank

From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of passn_thru2
Sent: Monday, December 26, 2005 3:25 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: New member.

--- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
<fsumption@l...> wrote:
>
> Hi All;
>
> I joined here because I am in need of an atenna that may help
> cancelling an annoying static problem in my area.
>
> Frank
>
%%

here are a few.. you can also Google..'variometer'

http://www.shcmarder.com/radios/crystal/11.html

http://www.qsl.net/in3nodt/variodes.html

http://www.radio.mcmail.com/vario-xtal.html

http://www.crystalradio.net/crystalsets/hassell/index.shtml

you may need to hook up a series of variometers to cancel out all
the stations in an active area.. another way to help is set up a
more selective antenna system. a tap every 5 turns.. or so,

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

26. New file uploaded to gccloopantennadesign

Yahoo group: gccloopantennadesign
Date: 2006-01-08 23:31:20 UTC
From: gccloopantennadesign@yahoogroups.com
Topic: 26 Message: 26

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the gccloopantennadesign
group.

File : /rg174 feedline/rg174.pdf
Uploaded by : p_walkup_2000 <pat.walkup@...>
Description : describes rg174 feedlines, sounds ideal for feeding a small loop

You can access this file at the URL:
http://groups.yahoo.com/group/gccloopantennadesign/files/rg174%20feedline/rg174.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

p_walkup_2000 <pat.walkup@...>

27. Re: New file uploaded to gccloopantennadesign

Yahoo group: gccloopantennadesign
Date: 2006-01-09 01:14:11 UTC
From: Adam E.
Topic: 26 Message: 27

Thanks for the information about coax cables. I will study it hard
Thanks. Feel Free to upload more. I just got my new soldering
iron so I will be back at the loop antenna projects. Thanks :)

Adam E. moderator.

--- In gccloopantennadesign@yahoogroups.com,
gccloopantennadesign@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the
gccloopantennadesign
> group.
>
> File : /rg174 feedline/rg174.pdf
> Uploaded by : p_walkup_2000 <pat.walkup@g...>
> Description : describes rg174 feedlines, sounds ideal for
feeding a small loop
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/gccloopantennadesign/files/rg174%
20feedline/rg174.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/help/us/groups/files
>
> Regards,
>
> p_walkup_2000 <pat.walkup@g...>
>

28. Single feeds?

Yahoo group: gccloopantennadesign
Date: 2006-01-10 20:10:11 UTC
From: Sumption Frank
Topic: 28 Message: 28
Attachments: 1 described; binary payloads are missing from this source WARC

Hi All;

I was making AM antennas because the "guys" were saying I needed an antenna, now they say " they didn't tell you about the single feed antenna". This voice is kinda muddy, so might be hard to hear. This voice was via another method of communication using shortwave. I don't know how a "single feed' antenna would help, since that's for multi-band operation with a single feed line.

I haven't done anymore work with the loops since Christmas, I was trying to get another system up and running, but the next one I'll try is the shielded loop. I found a design on the net for making one with shielded hook up wire, which I have because I also do intercom cabling.

Frank

29. a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-10 20:20:23 UTC
From: Sumption Frank
Topic: 29 Message: 29
Attachments: 1 described; binary payloads are missing from this source WARC

This is from a December 25th session using the receiver, presumably talking about the miners that were trapped, but I didn't find it until after the fact. I record the sessions on tape, then have to go through the recordings to separate out the "voices", which are mixed in with noise, and broadcast fragments. With this segment, you can hear how the phrase is "assembled" using bits of speech form other radio broadcasts. It's actually kind of a complicated system to get the voices, I've been working on it since 2002. Most of the time I get the voices after an event, which is disappointing since I can't use for evidence of predictive voices. It's hard to recognize the phrases until after the event. There's also the problem of everyone hearing slightly different, so what I have labeled, may not be what others hear.

Frank

30. Re: a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-10 21:08:38 UTC
From: Adam E.
Topic: 29 Message: 30

Hello, I have read you message. It sounds scary of course. I
have made a special group that discusses these things in common. I
will review the mp3 as best as I can since I audio mixing equipment.

http://groups.yahoo.com/group/radioscienceobserving/

if you want me to invite you let me know. This sounds like radio
EVP phenomena or something.

By the way what frequency were you on when you heard this and
what loop antenna or any kind of any other antenna?

Adam E. RSO

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> This is from a December 25th session using the receiver,
presumably
> talking about the miners that were trapped, but I didn't find it
until
> after the fact. I record the sessions on tape, then have to go
through
> the recordings to separate out the "voices", which are mixed in
with
> noise, and broadcast fragments. With this segment, you can hear
how the
> phrase is "assembled" using bits of speech form other radio
broadcasts.
> It's actually kind of a complicated system to get the voices, I've
been
> working on it since 2002. Most of the time I get the voices after
an
> event, which is disappointing since I can't use for evidence of
> predictive voices. It's hard to recognize the phrases until after
the
> event. There's also the problem of everyone hearing slightly
different,
> so what I have labeled, may not be what others hear.
>
>
>
>
>
> Frank
>

31. RE: [gccloopantennadesign] Re: a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-10 21:41:29 UTC
From: Sumption Frank
Topic: 29 Message: 31

Thanks Adam;

It is a form of radio. I randomly tune a receiver module, and use the resulting audio as a raw material that the spirits use to form their voices. It's more a form of ITC, than EVP. I scan the entire AM band, randomly, so there's no fixed frequency. I was using just a wire for the antenna, but they kept saying to use a better antenna, so I started playing with the loops, which seem to help.

I use tuner modules from old car stereos. I can voltage the modules. Newer stereos use digital tuning, so they're not usable in my current system. The new radios use I²C buss, and I don't know how to use that with my system.

There is a system invented by a German EVP researcher, Stefan Bion that uses the computer, and human speech to generate the random raw audio. While using this computer system I was constantly getting messages relayed from spirits that couldn't use the computer, so I developed my own analog system that seems more usable to most spirits, and other entities.

Hollywood makes ghosts scary, in reality it's not frightening at all. To the contrary, to get this type of communication always keeps me intrigued, and fascinated. I started with EVP and white noise back in 2000, and made my own system in 2002.

I have a site http://framksumption.tripod.com/ <http://framksumption.tripod.com/> to share information, and Stefan's site http://www.stefanbion.de/evpmaker/index_e.htm <http://www.stefanbion.de/evpmaker/index_e.htm>

We do have a group on yahoo called Grass Harp, with close to 300 members.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
Sent: Tuesday, January 10, 2006 2:09 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: a "ghost voice"

Hello, I have read you message. It sounds scary of course. I
have made a special group that discusses these things in common. I
will review the mp3 as best as I can since I audio mixing equipment.

http://groups.yahoo.com/group/radioscienceobserving/

if you want me to invite you let me know. This sounds like radio
EVP phenomena or something.

By the way what frequency were you on when you heard this and
what loop antenna or any kind of any other antenna?

Adam E. RSO

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> This is from a December 25th session using the receiver,
presumably
> talking about the miners that were trapped, but I didn't find it
until
> after the fact. I record the sessions on tape, then have to go
through
> the recordings to separate out the "voices", which are mixed in
with
> noise, and broadcast fragments. With this segment, you can hear
how the
> phrase is "assembled" using bits of speech form other radio
broadcasts.
> It's actually kind of a complicated system to get the voices, I've
been
> working on it since 2002. Most of the time I get the voices after
an
> event, which is disappointing since I can't use for evidence of
> predictive voices. It's hard to recognize the phrases until after
the
> event. There's also the problem of everyone hearing slightly
different,
> so what I have labeled, may not be what others hear.
>
>
>
>
>
> Frank
>

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

----

32. Re: a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-10 22:07:32 UTC
From: Adam E.
Topic: 29 Message: 32

Frank, Sounds interesting still that you used a loop antenna to do that kind of search. Also I have a Star Roamer Keight Kit receiver that uses tubes, but they need to be replaced in order for better reception. What kind of loop did you use? What are the specs? Could I build it myself? Adam E.

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank" <fsumption@l...> wrote:
>
> Thanks Adam;
>
>
>
> It is a form of radio. I randomly tune a receiver module, and use the resulting audio as a raw material that the spirits use to form their voices. It's more a form of ITC, than EVP. I scan the entire AM band, randomly, so there's no fixed frequency. I was using just a wire for the antenna, but they kept saying to use a better antenna, so I started playing with the loops, which seem to help.
>
>
>
> I use tuner modules from old car stereos. I can voltage the modules. Newer stereos use digital tuning, so they're not usable in my current system. The new radios use I²C buss, and I don't know how to use that with my system.
>
>
>
>
>
> There is a system invented by a German EVP researcher, Stefan Bion that uses the computer, and human speech to generate the random raw audio. While using this computer system I was constantly getting messages relayed from spirits that couldn't use the computer, so I developed my own analog system that seems more usable to most spirits, and other entities.
>
>
>
> Hollywood makes ghosts scary, in reality it's not frightening at all. To the contrary, to get this type of communication always keeps me intrigued, and fascinated. I started with EVP and white noise back in 2000, and made my own system in 2002.
>

>
>
> I have a site http://framksumption.tripod.com/
<http://framksumption.tripod.com/> to share information, and
Stefan's site http://www.stefanbion.de/evpmaker/index_e.htm
<http://www.stefanbion.de/evpmaker/index_e.htm>
>
>
>
> We do have a group on yahoo called Grass Harp, with close to 300
members.
>
>
>
> Frank
>
>
>
> _____
>
> From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
> Sent: Tuesday, January 10, 2006 2:09 PM
> To: gccloopantennadesign@yahoogroups.com
> Subject: [gccloopantennadesign] Re: a "ghost voice"
>
>
>
>
>
> Hello, I have read you message. It sounds scary of course. I
> have made a special group that discusses these things in common. I
> will review the mp3 as best as I can since I audio mixing
equipment.
>
> http://groups.yahoo.com/group/radioscienceobserving/
>
> if you want me to invite you let me know. This sounds like radio
> EVP phenomena or something.
>
> By the way what frequency were you on when you heard this and
> what loop antenna or any kind of any other antenna?
>
> Adam E. RSO
>
> --- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
> <fsumption@l...> wrote:
> >
> > This is from a December 25th session using the receiver,
> presumably
> > talking about the miners that were trapped, but I didn't find it

> until
> > after the fact. I record the sessions on tape, then have to go
> through
> > the recordings to separate out the "voices", which are mixed in
> with
> > noise, and broadcast fragments. With this segment, you can hear
> how the
> > phrase is "assembled" using bits of speech form other radio
> broadcasts.
> > It's actually kind of a complicated system to get the voices,
I've
> been
> > working on it since 2002. Most of the time I get the voices
after
> an
> > event, which is disappointing since I can't use for evidence of
> > predictive voices. It's hard to recognize the phrases until
after
> the
> > event. There's also the problem of everyone hearing slightly
> different,
> > so what I have labeled, may not be what others hear.
> >
> >
> >
> >
> >
> > Frank
> >
>
>
>
>
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
>
> * To unsubscribe from this group, send an email to:
> gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
>

> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .
>
>
>
> ---------------------------------
>

33. RE: [gccloopantennadesign] Re: a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-10 23:05:55 UTC
From: Sumption Frank
Topic: 29 Message: 33

Hi Adam;

It was just rough loop made from crossing two 24 inch pieces of wood to form an X. I cut slots in the ends of the wood top hold the wire in place. I used 10 turns of #24 magnet wire, with a one turn pick up winding. It's just a basic AM loop like one on this site. http://www.mindspring.com/%7Eloop_antenna/ or one of the links.

I made a larger version using 48 inch spreaders. I use varactor diodes instead of the mechanical tuning capacitor so I can use the tuning voltage form the ghost receiver to tune the antenna. http://www.schmarder.com/radios/misc-stuff/loops.htm the larger antenna looks like these.

I have one of those receivers that I picked up at a ham fest a few years ago. You can still get the tubes at Antique Electronic Supply, https://secure.tubesandmore.com/

You should be able to get everything to make an antenna between the hardware store, and Radio Shack. I used old mechanical caps for testing, I got those out of old tube radios that weren't worth fixing. You can also use caps from transistor radios.

You can get ghost voices by tuning a radio between stations, and using the static noise as white noise.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
Sent: Tuesday, January 10, 2006 3:08 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: a "ghost voice"

Frank, Sounds interesting still that you used a loop antenna to do
that kind of search. Also I have a Star Roamer Keight Kit receiver
that uses tubes, but they need to be replaced in order for better
reception. What kind of loop did you use? What are the specs?
Could I build it myself? Adam E.

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
<fsumption@l...> wrote:
>
> Thanks Adam;
>
>
>
> It is a form of radio. I randomly tune a receiver module, and use
the resulting audio as a raw material that the spirits use to form

their voices. It's more a form of ITC, than EVP. I scan the entire AM band, randomly, so there's no fixed frequency. I was using just a wire for the antenna, but they kept saying to use a better antenna, so I started playing with the loops, which seem to help.
>
>
>
> I use tuner modules from old car stereos. I can voltage the modules. Newer stereos use digital tuning, so they're not usable in my current system. The new radios use I²C buss, and I don't know how to use that with my system.
>
>
>
>
>
> There is a system invented by a German EVP researcher, Stefan Bion that uses the computer, and human speech to generate the random raw audio. While using this computer system I was constantly getting messages relayed from spirits that couldn't use the computer, so I developed my own analog system that seems more usable to most spirits, and other entities.
>
>
>
> Hollywood makes ghosts scary, in reality it's not frightening at all. To the contrary, to get this type of communication always keeps me intrigued, and fascinated. I started with EVP and white noise back in 2000, and made my own system in 2002.
>
>
>
> I have a site http://framksumption.tripod.com/ <http://framksumption.tripod.com/> to share information, and Stefan's site http://www.stefanbion.de/evpmaker/index_e.htm <http://www.stefanbion.de/evpmaker/index_e.htm>
>
>
>
> We do have a group on yahoo called Grass Harp, with close to 300 members.
>
>
>
> Frank
>
>
>
> ---
>

> From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
> Sent: Tuesday, January 10, 2006 2:09 PM
> To: gccloopantennadesign@yahoogroups.com
> Subject: [gccloopantennadesign] Re: a "ghost voice"
>
>
>
>
> Hello, I have read you message. It sounds scary of course. I
> have made a special group that discusses these things in common. I
> will review the mp3 as best as I can since I audio mixing
equipment.
>
> http://groups.yahoo.com/group/radioscienceobserving/
>
> if you want me to invite you let me know. This sounds like radio
> EVP phenomena or something.
>
> By the way what frequency were you on when you heard this and
> what loop antenna or any kind of any other antenna?
>
> Adam E. RSO
>
> --- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
> <fsumption@l...> wrote:
> >
> > This is from a December 25th session using the receiver,
> presumably
> > talking about the miners that were trapped, but I didn't find it
> until
> > after the fact. I record the sessions on tape, then have to go
> through
> > the recordings to separate out the "voices", which are mixed in
> with
> > noise, and broadcast fragments. With this segment, you can hear
> how the
> > phrase is "assembled" using bits of speech form other radio
> broadcasts.
> > It's actually kind of a complicated system to get the voices,
I've
> been
> > working on it since 2002. Most of the time I get the voices
after
> an
> > event, which is disappointing since I can't use for evidence of
> > predictive voices. It's hard to recognize the phrases until
after
> the
> > event. There's also the problem of everyone hearing slightly

> different,
> > so what I have labeled, may not be what others hear.
> >
> >
> >
> >
> >
> > Frank
> >
>
>
>
>
>
>
>
> ---------------------------------
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
>
> * To unsubscribe from this group, send an email to:
> gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .
>
>
>
> ---------------------------------
>

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

34. Re: a "ghost voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-11 13:59:20 UTC
From: Adam E.
Topic: 29 Message: 34

Frank, Thanks for showing a good project for me to do. When I get the wood and the other materials out. I will see about getting it built. I have a stepfather who would cut the wood for me with his shop tools. I will let you know when I get it done.

Adam E.

--- In gccloopantennadesign@yahoogroups.com, "Sumption Frank" <fsumption@l...> wrote:
>
> Hi Adam;
>
>
>
> It was just rough loop made from crossing two 24 inch pieces of wood to form an X. I cut slots in the ends of the wood top hold the wire in place. I used 10 turns of #24 magnet wire, with a one turn pick up winding. It's just a basic AM loop like one on this site. http://www.mindspring.com/%7Eloop_antenna/ or one of the links.
>
>
>
>
>
> I made a larger version using 48 inch spreaders. I use varactor diodes instead of the mechanical tuning capacitor so I can use the tuning voltage form the ghost receiver to tune the antenna. http://www.schmarder.com/radios/misc-stuff/loops.htm the larger antenna looks like these.
>
>
>
> I have one of those receivers that I picked up at a ham fest a few years ago. You can still get the tubes at Antique Electronic Supply, https://secure.tubesandmore.com/
>
>
>
> You should be able to get everything to make an antenna between the hardware store, and Radio Shack. I used old mechanical caps for testing, I got those out of old tube radios that weren't worth fixing. You can also use caps from transistor radios.
>
>
>

> You can get ghost voices by tuning a radio between stations, and
using the static noise as white noise.
>
>
>
> Frank
>
>
>
>
>
>
>
>
> _____
>
> From: gccloopantennadesign@yahoogroups.com
[mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
> Sent: Tuesday, January 10, 2006 3:08 PM
> To: gccloopantennadesign@yahoogroups.com
> Subject: [gccloopantennadesign] Re: a "ghost voice"
>
>
>
> Frank, Sounds interesting still that you used a loop antenna to
do
> that kind of search. Also I have a Star Roamer Keight Kit
receiver
> that uses tubes, but they need to be replaced in order for better
> reception. What kind of loop did you use? What are the specs?
> Could I build it myself? Adam E.
>
>
> --- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
> <fsumption@l...> wrote:
> >
> > Thanks Adam;
> >
> >
> >
> > It is a form of radio. I randomly tune a receiver module, and
use
> the resulting audio as a raw material that the spirits use to form
> their voices. It's more a form of ITC, than EVP. I scan the
entire
> AM band, randomly, so there's no fixed frequency. I was using just
a
> wire for the antenna, but they kept saying to use a better
antenna,
> so I started playing with the loops, which seem to help.
> >

> >
> >
> > I use tuner modules from old car stereos. I can voltage the
> modules. Newer stereos use digital tuning, so they're not usable
in
> my current system. The new radios use I²C buss, and I don't know
how
> to use that with my system.
> >
> >
> >
> >
> >
> > There is a system invented by a German EVP researcher, Stefan
> Bion that uses the computer, and human speech to generate the
random
> raw audio. While using this computer system I was constantly
getting
> messages relayed from spirits that couldn't use the computer, so I
> developed my own analog system that seems more usable to most
> spirits, and other entities.
> >
> >
> >
> > Hollywood makes ghosts scary, in reality it's not frightening
at
> all. To the contrary, to get this type of communication always
keeps
> me intrigued, and fascinated. I started with EVP and white noise
> back in 2000, and made my own system in 2002.
> >
> >
> >
> > I have a site http://framksumption.tripod.com/
> <http://framksumption.tripod.com/> to share information, and
> Stefan's site http://www.stefanbion.de/evpmaker/index_e.htm
> <http://www.stefanbion.de/evpmaker/index_e.htm>
> >
> >
> >
> > We do have a group on yahoo called Grass Harp, with close to
300
> members.
> >
> >
> >
> > Frank
> >
> >
> >

> > _____
> >
> > From: gccloopantennadesign@yahoogroups.com
> [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Adam E.
> > Sent: Tuesday, January 10, 2006 2:09 PM
> > To: gccloopantennadesign@yahoogroups.com
> > Subject: [gccloopantennadesign] Re: a "ghost voice"
> >
> >
> >
> >
> > Hello, I have read you message. It sounds scary of course. I
> > have made a special group that discusses these things in common.
I
> > will review the mp3 as best as I can since I audio mixing
> equipment.
> >
> > http://groups.yahoo.com/group/radioscienceobserving/
> >
> > if you want me to invite you let me know. This sounds like
radio
> > EVP phenomena or something.
> >
> > By the way what frequency were you on when you heard this and
> > what loop antenna or any kind of any other antenna?
> >
> > Adam E. RSO
> >
> > --- In gccloopantennadesign@yahoogroups.com, "Sumption Frank"
> > <fsumption@l...> wrote:
> > >
> > > This is from a December 25th session using the receiver,
> > presumably
> > > talking about the miners that were trapped, but I didn't find
it
> > until
> > > after the fact. I record the sessions on tape, then have to go
> > through
> > > the recordings to separate out the "voices", which are mixed
in
> > with
> > > noise, and broadcast fragments. With this segment, you can
hear
> > how the
> > > phrase is "assembled" using bits of speech form other radio
> > broadcasts.
> > > It's actually kind of a complicated system to get the voices,
> I've
> > been
> > > working on it since 2002. Most of the time I get the voices

> after
> > an
> > > event, which is disappointing since I can't use for evidence of
> > > predictive voices. It's hard to recognize the phrases until
> after
> > the
> > > event. There's also the problem of everyone hearing slightly
> > different,
> > > so what I have labeled, may not be what others hear.
> > >
> > >
> > >
> > >
> > >
> > > Frank
> > >
> >
> >
> >
> >
> >
> >
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> >
> >
> > * Visit your group "gccloopantennadesign
> <http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > gccloopantennadesign-unsubscribe@yahoogroups.com
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
> subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms
of
> Service <http://docs.yahoo.com/info/terms/> .
> >
> >
> >
> > _____
> >
>
>
>
>
>

>
>
>
> ---------------------------------
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.
>
> * To unsubscribe from this group, send an email to:
> gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .
>
>
>
> ---------------------------------
>

35. Re: [gccloopantennadesign] Re: New file uploaded to gccloopantennadesign

Yahoo group: gccloopantennadesign
Date: 2006-01-12 00:53:29 UTC
From: pat walkup
Topic: 26 Message: 35
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

36. Re: New member.

Yahoo group: gccloopantennadesign
Date: 2006-01-12 21:40:47 UTC
From: Frank Sumption
Topic: 4   Message: 36

I need to be able to tune the antenna remotely, so it will track
the receiver, which is being tuned randomly. Just using a loop helps
quite a bit.

Frank

--- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
<passn_thru2@y...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Frank Sumption"
> <fsumption@l...> wrote:
> >
> > Hi All;
> >
> > I joined here because I am in need of an atenna that may help
> > cancelling an annoying static problem in my area.
> >
> > Frank
> >
> %%
%
>
> here are a few.. you can also Google..'variometer'
>
> http://www.shcmarder.com/radios/crystal/11.html
>
> http://www.qsl.net/in3nodt/variodes.html
>
> http://www.radio.mcmail.com/vario-xtal.html
>
> http://www.crystalradio.net/crystalsets/hassell/index.shtml
>
> you may need to hook up a series of variometers to cancel out all
> the stations in an active area.. another way to help is set up a
> more selective antenna system. a tap every 5 turns.. or so,
>

37. The next project.

Yahoo group: gccloopantennadesign
Date: 2006-01-12 21:53:16 UTC
From: Sumption Frank
Topic: 37 Message: 37
Attachments: 1 described; binary payloads are missing from this source WARC

This is a voltage tunable receiver I've been trying to get to work. This schematic represents the latest changes to the tuning.

Frank

38. RE: [gccloopantennadesign] The next project.

Yahoo group: gccloopantennadesign
Date: 2006-01-13 14:23:14 UTC
From: Sumption Frank
Topic: 37 Message: 38

That didn't work! DOH! Guess I'll have to keep on using the car stereo tuner modules.

Frank

39. RE: [gccloopantennadesign] The next project.

Yahoo group: gccloopantennadesign
Date: 2006-01-13 22:40:32 UTC
From: Sumption Frank
Topic: 37 Message: 39

Well, that didn't work, but I found some designs on the web for heterodyne circuits that I should be able to convert. I did use a loop last night, and by orienting it so it's broadside was just slightly south of facing east, I was able to get rid of the noise in the middle of the AM band.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of Sumption Frank
Sent: Thursday, January 12, 2006 2:53 PM
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] The next project.

This is a voltage tunable receiver I've been trying to get to work. This schematic represents the latest changes to the tuning.

Frank

SPONSORED LINKS

Icom ham radio
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=LdxlKkh5F4aNa7-3RMWCgw>

Yaesu ham radio
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Icom+ham+radio&w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=bpdWozZnbwywzpMMseHYiw>

Shortwave receivers
<http://groups.yahoo.com/gads?t=ms&k=Shortwave+receivers&w1=Icom+ham+radio&w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=vFAhTflZXdKgb1tAFtvvGg>

Loop antenna
<http://groups.yahoo.com/gads?t=ms&k=Loop+antenna&w1=Icom+ham+radio&w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=LkeDqnt8Ujp05lE9RNVkRw>

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

---

40. A hetrodyne recevier.

Yahoo group: gccloopantennadesign
Date: 2006-01-16 14:42:45 UTC
From: Sumption Frank
Topic: 40 Message: 40

Hi All;

Well those designs from the web didn't work as they were drawn, but I was able to use them as a guide to come up with a working radio. I'm using an NE602 front end, followed with an MC1350 IF amp (455khz), and a FET detector stage. The audio is just an LM386. It worked bread boarded, which is kind of lousy for RF. I'm putting the radio on perf board now, and I'm adding another tank section to the local oscillator so I can get some shortwave coverage. The tanks are switched in with reed relays. I realize a much better radio could be purchased, but I need a design that I can incorporate into my system, with the possibility of selling someday, and it has to be voltage tunable. The tuning is done with an MVAM108 for the BC band, and a NTE618 for the shortwave coverage, which I can get up through the 31 meter band.

I always wonder if the people that design the circuits ever try them out, it's Rare to build circuits form sources such as Popular Electronics, Radio Electronics, or even the ham radio handbook, that work as they are drawn in the books or magazines. Usually I use the articles, and schematics as a guide to come up with something that works. I'm no engineer, and to make it worse, my head goes out to lunch when it encounters numbers, but somehow, I can make electronic stuff work.

Frank

41. AM radio chips

Yahoo group: gccloopantennadesign
Date: 2006-01-19 14:43:47 UTC
From: Sumption Frank
Topic: 41 Message: 41

Hi All;

Back in the 70's National made an 8 pin chip, AM radio chip designed for car radios, I've seen posts saying they were pretty good little chips. I found a source for these, BG Micro in Texas. The chips are 12 cents each, and you have to buy tubes of 25, no minimum order. Seems like these chips would be good for QRP projects, and other receiver projects, as well as AM. I ordered 3 tubes, and various other parts.

I couldn't get my radio circuits to work on a perf board, but they work bread boarded, weird. I put together another TRF receiver last night, modified for voltage tuning, and that works just fine, on the bread board. The superhet worked n the bread board also, but only on the perf board, so I'll have to examine my construction techniques.

Frank

42. Re: [gccloopantennadesign] AM radio chips

Yahoo group: gccloopantennadesign
Date: 2006-01-19 15:58:26 UTC
From: KY1K
Topic: 41 Message: 42

Hey Frank, what kind of chips???? If you are talking about the very
populate mk454/zn414, then 12 cents a piece is a steal. Just curoius.

Art

At 09:43 AM 1/19/2006, you wrote:

>Hi All;
>
> Back in the 70's National made an 8 pin chip, AM radio chip
> designed for car radios, I've seen posts saying they were pretty
> good little chips. I found a source for these, BG Micro in Texas.
> The chips are 12 cents each, and you have to buy tubes of 25, no
> minimum order. Seems like these chips would be good for QRP
> projects, and other receiver projects, as well as AM. I ordered 3
> tubes, and various other parts.
>
> I couldn't get my radio circuits to work on a perf board, but they
> work bread boarded, weird. I put together another TRF receiver last
> night, modified for voltage tuning, and that works just fine, on
> the bread board. The superhet worked n the bread board also,
> but only on the perf board, so I'll have to examine my
> construction techniques.
>
>
> Frank
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w2=Yaesu+ham+radio&
w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=LdxlKkh5F4aNa7-3RMWCgw>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Icom+ham+radio&w2=Yaesu+ham+radio
&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=bpdWozZnbwywzpMMseHYiw>Yaesu
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Shortwave+receivers&w1=Icom+ham+radio&w2=Yaesu+ham+r
adio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=vFAhTflZXdKgb1tAFtvvGg>Shortwave
>receivers
><http://groups.yahoo.com/gads?t=ms&k=Loop+antenna&w1=Icom+ham+radio&w2=Yaesu+ham+radio&w3
=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=LkeDqnt8Ujp05lE9RNVkRw>Loop
>antenna
>
>
>----------
>YAHOO! GROUPS LINKS

>
> * Visit your group
> "<http://groups.yahoo.com/group/gccloopantennadesign>gccloopantennadesign"
> on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubscribe>gccloopante
nnadesign-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

43. RE: [gccloopantennadesign] AM radio chips

Yahoo group: gccloopantennadesign
Date: 2006-01-19 18:00:09 UTC
From: Sumption Frank
Topic: 41 Message: 43

Even better, they are LM3820 AM radio chips made by National Semiconductor. They are superhet radio chips designed for car radios back in the 70's. I have 20 of the MK484 chips I bought last month for 65 cents each. You have buy the LM3820's by the tube, 25 to a tube, for $3, so I ordered three tubes (75 chips), from B.G. Micro.

I made another MK484 radio last night on bread board, and it works fine, I even modified the design to be voltage tuned, and it still worked. I have a video of it in MPEG4 format, about a megabyte in size.

Frank

From: gccloopantennadesign@yahoogroups.com [mailto:gccloopantennadesign@yahoogroups.com] On Behalf Of KY1K
Sent: Thursday, January 19, 2006 8:58 AM
To: gccloopantennadesign@yahoogroups.com
Subject: Re: [gccloopantennadesign] AM radio chips

Hey Frank, what kind of chips???? If you are talking about the very populate mk454/zn414, then 12 cents a piece is a steal. Just curoius.

Art

At 09:43 AM 1/19/2006, you wrote:

>Hi All;
>
> Back in the 70's National made an 8 pin chip, AM radio chip
> designed for car radios, I've seen posts saying they were pretty
> good little chips. I found a source for these, BG Micro in Texas.
> The chips are 12 cents each, and you have to buy tubes of 25, no
> minimum order. Seems like these chips would be good for QRP
> projects, and other receiver projects, as well as AM. I ordered 3
> tubes, and various other parts.
>
> I couldn't get my radio circuits to work on a perf board, but they
> work bread boarded, weird. I put together another TRF receiver last
> night, modified for voltage tuning, and that works just fine, on
> the bread board. The superhet worked n the bread board also,
> but only on the perf board, so I'll have to examine my
> construction techniques.
>
>
> Frank
>

>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Icom+ham+radio&w
2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=L
dxlKkh5F4aNa7-3RMWCgw>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Icom+ham+radio&
w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=
bpdWozZnbwywzpMMseHYiw>Yaesu
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Shortwave+receivers&w1=Icom+ham+ra
dio&w2=Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.
sig=vFAhTflZXdKgb1tAFtvvGg>Shortwave
>receivers
><http://groups.yahoo.com/gads?t=ms&k=Loop+antenna&w1=Icom+ham+radio&w2=
Yaesu+ham+radio&w3=Shortwave+receivers&w4=Loop+antenna&c=4&s=84&.sig=Lke
Dqnt8Ujp05lE9RNVkRw>Loop
>antenna
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group
>
"<http://groups.yahoo.com/group/gccloopantennadesign>gccloopantennadesig
n"
> on the web.
> *
> * To unsubscribe from this group, send an email to:
> *
>
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>gccloopantennadesign-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------

YAHOO! GROUPS LINKS

* Visit your group "gccloopantennadesign
<http://groups.yahoo.com/group/gccloopantennadesign> " on the web.

* To unsubscribe from this group, send an email to:
gccloopantennadesign-unsubscribe@yahoogroups.com
<mailto:gccloopantennadesign-unsubscribe@yahoogroups.com?subject=Unsubsc
ribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

_____

44. A better MK484 front end.

Yahoo group: gccloopantennadesign
Date: 2006-01-20 17:50:11 UTC
From: Sumption Frank
Topic: 44 Message: 44
Attachments: 1 described; binary payloads are missing from this source WARC

I don't why they always show the input tuned circuit in series with the MK484, but this works more better. You can replace the varactor diode with a mechanical cap. I use a TL082 op amp, configured for single ended supply as a preamp, then an LM386 as an output.

Frank

45. A better MK484 front end.

Yahoo group: gccloopantennadesign
Date: 2006-01-20 18:29:27 UTC
From: Sumption Frank
Topic: 44 Message: 45
Attachments: 1 described; binary payloads are missing from this source WARC

I don't why they always show the input tuned circuit in series with the MK484, but this works more better. You can replace the varactor diode with a mechanical cap. I use a TL082 op amp, configured for single ended supply as a preamp, then an LM386 as an output.

Frank

46. Re: A better MK484 front end.

Yahoo group: gccloopantennadesign
Date: 2006-01-20 18:53:37 UTC
From: Frank Sumption
Topic: 44 Message: 46

DOH! I re-sent this because it said it didn't go through.

Frank

47. An"antenna voice"

Yahoo group: gccloopantennadesign
Date: 2006-01-20 19:00:50 UTC
From: Sumption Frank
Topic: 47 Message: 47
Attachments: 4 described; binary payloads are missing from this source WARC

This is from a recording I did last Sunday using the smaller spiral loop antenna. This antenna is about two feet on each side. These are all the same voice, I tried filtering to hopefully make it clearer, but it's still muddy.

Frank

48. "Condenser" antenna?

Yahoo group: gccloopantennadesign
Date: 2006-01-24 15:18:37 UTC
From: Sumption Frank
Topic: 48 Message: 48
Attachments: 2 described; binary payloads are missing from this source WARC

"use condenser-antenna" I'm not sure how to make one of those for AM.
I know there such a thing as capacitor antennas. I'm thinking maybe a
couple strips of aluminum foil tape on some kind of insulator, like 1/8
plexi-galss.

Frank

49. The chips!

Yahoo group: gccloopantennadesign
Date: 2006-01-26 14:34:09 UTC
From: Frank Sumption
Topic: 49 Message: 49

I got the LM3820's in yesterday, I orderd 75 for only 9 bucks! So far---I found that the black IF can without its internal capacitor will just about cover the the AM band if used in the oscillator section. The red AM oscilator cans I had wouldn't quite cover the whole band with the tuning diodes I have. I needed more range, so I'm using a small, rectangle shaped ferrite rod from a newer pocket radio, and so far can get the oscillator up to 5mhz. It looks like by using the right ferrite material, the chip will be suitable for short wave.

Of course I still need to come up with a front end for the chip, maybe just a step up transformer using a torroid. Because I'm using voltage tuning, tuning an RF section on the input maybe problematic, as far as trackng goes, but I'll have to experiment. After I have the voltage tuned version working, then I want to make a regular receiver using standard mechanical tuning caps.

Frank

50. New to group

Yahoo group: gccloopantennadesign
Date: 2006-03-29 00:00:47 UTC
From: jllamb62
Topic: 50 Message: 50

Hello,
My name is Jim Lamb and I live in southwestern Indiana. I will be retiring soon and I want to get back into building radios and other electronic devices.
Several years ago I was an avid shortwave listener, I still have my Drake receivers,SPR4 and R4C, old but reliable. I got out my old radio parts and started gathering new information.
I want to get into longwave, mediumwave, and vhf as well as shortwave . I also want to experiment with antennas, dipole, vertical,etc.
I live in the country on 18 acres so space will not be a problem.
I am looking forward to participating in the group.
Jim

51. Re: [gccloopantennadesign] New to group

Yahoo group: gccloopantennadesign
Date: 2006-03-30 12:56:35 UTC
From: Mike Bessonett
Topic: 50 Message: 51

Hi Jim, welcome to the group. I joined because I'm
interested in building a large loop antenna to recieve
very low frequency becon signals in order to monitor
Sudden Ionispheric Disturbances (SID)caused by solar
flares and gamma ray bursts.I'm working on a ham
liscense also.So far I've recieved zero feedback at
this site. Sincerely, Mike

--- jllamb62 <jllamb62@...> wrote:

> Hello,
> My name is Jim Lamb and I live in southwestern
> Indiana. I will be
> retiring soon and I want to get back into building
> radios and other
> electronic devices.
> Several years ago I was an avid shortwave listener,
> I still have my
> Drake receivers,SPR4 and R4C, old but reliable. I
> got out my old radio
> parts and started gathering new information.
> I want to get into longwave, mediumwave, and vhf as
> well as
> shortwave . I also want to experiment with antennas,
> dipole,
> vertical,etc.
> I live in the country on 18 acres so space will not
> be a problem.
> I am looking forward to participating in the group.
> Jim
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

53. List alive?

Yahoo group: gccloopantennadesign
Date: 2006-10-16 03:41:16 UTC
From: Bob
Topic: 53 Message: 53

Anyone alive and breathing here.
So far I never saw a post
BOB
AF2Q
http://groups.yahoo.com/group/CW-QRP-Covert-Antennas/

54. Re: [gccloopantennadesign] List alive?

Yahoo group: gccloopantennadesign
Date: 2006-10-17 15:52:30 UTC
From: John Popelish
Topic: 53 Message: 54

Bob wrote:
> Anyone alive and breathing here.

Yes, both of those. ;-)

> So far I never saw a post

It has been very quiet, here since late last year.

John Popelish

55. i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-18 19:45:38 UTC
From: passn_thru2
Topic: 55 Message: 55

i made a quick loop out of a 14 inch piece of strapping core at work.. and then made a nicer one.. i used phone wire because that is all i had at the time.. but it works really nice.. i put comercial door bell wire on the big loop from Lowes.. it is a pain to untwist but cheap. red and white. i got a roll of 14 gauge i want to build a 4 foot square loop with..any suggestions on the design..?

i got into all this because i lived in a very isolated and rural area and the station i like to listen to, Air America Radio on 860 was in Memphis about 100 miles away. i have sence started making crystal radios and i just got a Hitchi Ocilliscope V-212 20 MHz with the origional manual for $30 dollars at a yard sale last weekend, and a job lead, was looking for an electronics assembly job here in Winston-Salem NV.. i worked for Boeing assembling Avionics Controls for the F22,18,16,15. the Osprey, Comanchie, B-1b, C17, Sea Launch and Delta Rockets.

i dont know much about electronics, but i really want to learn more about analysis of problems.. that would be fun and open up my employment options.

i wll see if i can get my pictures in the files here...

56. Re: [gccloopantennadesign] i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-18 23:41:11 UTC
From: John Popelish
Topic: 55 Message: 56

passn_thru2 wrote:
> ...i got a roll of 14 gauge i want to build a 4 foot
> square loop with..any suggestions on the design..?

I have been thinking about making a loop out of thin walled
PVC pipe and sawing a slot all around the outside, so I can
lay wire into this form. I think a table saw set with just
a little blade sticking up would be able to slot the pipe.
(snip)

> i dont know much about electronics, but i really want to learn more
> about analysis of problems.. that would be fun and open up my
> employment options.

I suggest you look for a second hand copy of "Art of
Electronics".
http://www.bookfinder.com/

57. Re: i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-21 14:13:09 UTC
From: mikebesonet
Topic: 55 Message: 57

--- In gccloopantennadesign@yahoogroups.com, "passn_thru2" <passn_thru2@...> wrote:
>
> i made a quick loop out of a 14 inch piece of strapping core at work..
> and then made a nicer one.. i used phone wire because that is all i
> had at the time.. but it works really nice.. i put comercial door bell
> wire on the big loop from Lowes.. it is a pain to untwist but cheap.
> red and white. i got a roll of 14 gauge i want to build a 4 foot
> square loop with..any suggestions on the design..?
>
> i got into all this because i lived in a very isolated and rural area
> and the station i like to listen to, Air America Radio on 860 was in
> Memphis about 100 miles away. i have sence started making crystal
> radios and i just got a Hitchi Ocilliscope V-212 20 MHz with the
> origional manual for $30 dollars at a yard sale last weekend, and a
> job lead, was looking for an electronics assembly job here in Winston-
> Salem NV.. i worked for Boeing assembling Avionics Controls for the
> F22,18,16,15. the Osprey, Comanchie, B-1b, C17, Sea Launch and Delta
> Rockets.
>
> i dont know much about electronics, but i really want to learn more
> about analysis of problems.. that would be fun and open up my
> employment options.
>
> i wll see if i can get my pictures in the files here...
>
>the high school physics class i teach is building an octogonal loop out of pvc pipe. octogons come as close as practically possible to maximizing the area to perimeter ratio that a circle would. we're using 45 degree ells with tees between them all close spaced to form a "core", with the tees "looking" radially outward. then we are inserting 8, two foot long radials into the tees. on the ends of each radial, we are putting 8 more tees turned at 90 degrees to

create a 24 gage wire wrapping form.a few drops of super glue holds
the wraps in place. i'll post pics when it is done.
>

58. Re: i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-21 16:34:45 UTC
From: passn_thru2
Topic: 55 Message: 58

```
--- In gccloopantennadesign@yahoogroups.com, "mikebesonet"
<mikebesonet@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
> <passn_thru2@> wrote:
> >
> > i made a quick loop out of a 14 inch piece of strapping core at
> work..
> > and then made a nicer one.. i used phone wire because that is
all
> i
> > had at the time.. but it works really nice.. i put comercial
door
> bell
> > wire on the big loop from Lowes.. it is a pain to untwist but
> cheap.
> > red and white. i got a roll of 14 gauge i want to build a 4
foot
> > square loop with..any suggestions on the design..?
> >
> > i got into all this because i lived in a very isolated and rural
> area
> > and the station i like to listen to, Air America Radio on 860
was
> in
> > Memphis about 100 miles away. i have sence started making
crystal
> > radios and i just got a Hitchi Ocilliscope V-212 20 MHz with the
> > origional manual for $30 dollars at a yard sale last weekend,
and
> a
> > job lead, was looking for an electronics assembly job here in
> Winston-
> > Salem NV.. i worked for Boeing assembling Avionics Controls for
> the
> > F22,18,16,15. the Osprey, Comanchie, B-1b, C17, Sea Launch and
> Delta
> > Rockets.
> >
> > i dont know much about electronics, but i really want to learn
> more
> > about analysis of problems.. that would be fun and open up my
> > employment options.
> >
```

> > i wll see if i can get my pictures in the files here...
> >
> >the high school physics class i teach is building an octogonal
loop
> out of pvc pipe. octogons come as close as practically possible to
> maximizing the area to perimeter ratio that a circle would. we're
> using 45 degree ells with tees between them all close spaced to
form
> a "core", with the tees "looking" radially outward. then we are
> inserting 8, two foot long radials into the tees. on the ends of
> each radial, we are putting 8 more tees turned at 90 degrees to
> create a 24 gage wire wrapping form.a few drops of super glue
holds
> the wraps in place. i'll post pics when it is done.
> >
>
%%

i am not sure about the supper glue,, it crystalizes in time and you
really need some flex , i had to pull the slack around mine because
as you wind the wire it effects the axial dementions.. i had to
incert flat wooden pieces over and under the wires at a rt angles to
them between the arms. then twist them 90* to make spreaders to
tighten up the wire.. it also provided a greater distance between
the wires and it works much better.. sort of came out like a simple
rook coil.. what are you using for a tuner..

59. Re: i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-22 22:31:14 UTC
From: mikebesonet
Topic: 55 Message: 59

```
--- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
<passn_thru2@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "mikebesonet"
> <mikebesonet@> wrote:
> >
> > --- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
> > <passn_thru2@> wrote:
> > >
> > > i made a quick loop out of a 14 inch piece of strapping core
at
> > work..
> > > and then made a nicer one.. i used phone wire because that is
> all
> > i
> > > had at the time.. but it works really nice.. i put comercial
> door
> > bell
> > > wire on the big loop from Lowes.. it is a pain to untwist but
> > cheap.
> > > red and white. i got a roll of 14 gauge i want to build a 4
> foot
> > > square loop with..any suggestions on the design..?
> > >
> > > i got into all this because i lived in a very isolated and
rural
> > area
> > > and the station i like to listen to, Air America Radio on 860
> was
> > in
> > > Memphis about 100 miles away. i have sence started making
> crystal
> > > radios and i just got a Hitchi Ocilliscope V-212 20 MHz with
the
> > > origional manual for $30 dollars at a yard sale last weekend,
> and
> > a
> > > job lead, was looking for an electronics assembly job here in
> > Winston-
> > > Salem NV.. i worked for Boeing assembling Avionics Controls
for
> > the
> > > F22,18,16,15. the Osprey, Comanchie, B-1b, C17, Sea Launch and
> > Delta
```

> > > Rockets.
> > >
> > > i dont know much about electronics, but i really want to learn
> > more
> > > about analysis of problems.. that would be fun and open up my
> > > employment options.
> > >
> > > i wll see if i can get my pictures in the files here...
> > >
> > >the high school physics class i teach is building an octogonal
> loop
> > out of pvc pipe. octogons come as close as practically possible
to
> > maximizing the area to perimeter ratio that a circle would.
we're
> > using 45 degree ells with tees between them all close spaced to
> form
> > a "core", with the tees "looking" radially outward. then we are
> > inserting 8, two foot long radials into the tees. on the ends of
> > each radial, we are putting 8 more tees turned at 90 degrees to
> > create a 24 gage wire wrapping form.a few drops of super glue
> holds
> > the wraps in place. i'll post pics when it is done.
> > >
> >
> %%
>
> i am not sure about the supper glue,, it crystalizes in time and
you
> really need some flex , i had to pull the slack around mine
because
> as you wind the wire it effects the axial dementions.. i had to
> incert flat wooden pieces over and under the wires at a rt angles
to
> them between the arms. then twist them 90* to make spreaders to
> tighten up the wire.. it also provided a greater distance between
> the wires and it works much better.. sort of came out like a
simple
> rook coil.. what are you using for a tuner..
>our tuner is based on the gyrator II very low frequency circuit by
al stokes and the american asociation of variable star observers (
aavso). It is a simple rig with two TL-082 op amps, a few resistors,
and capacitors. we got ours from stanford university's solar center.
it is pre tuned to 24.8 KHz to recieve the navy submarine
transmissions from jim creek, washington.

60. Re: i lost my favorates in a computer cash..thanks for the email i have Pictures.!!

Yahoo group: gccloopantennadesign
Date: 2006-10-23 12:26:05 UTC
From: passn_thru2
Topic: 55 Message: 60

```
--- In gccloopantennadesign@yahoogroups.com, "mikebesonet"
<mikebesonet@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
> passn_thru2@ wrote:
> >
> > --- In gccloopantennadesign@yahoogroups.com, "mikebesonet"
> > <mikebesonet@> wrote:
> > >
> > > --- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
> > > <passn_thru2@> wrote:
> > > >
> > > > i made a quick loop out of a 14 inch piece of strapping core
> at
> > > work..
> > > > and then made a nicer one.. i used phone wire because that is
> > all
> > > i
> > > > had at the time.. but it works really nice.. i put comercial
> > door
> > > bell
> > > > wire on the big loop from Lowes.. it is a pain to untwist but
> > > cheap.
> > > > red and white. i got a roll of 14 gauge i want to build a 4
> > foot
> > > > square loop with..any suggestions on the design..?
> > > >
> > > > i got into all this because i lived in a very isolated and
> rural
> > > area
> > > > and the station i like to listen to, Air America Radio on 860
> > was
> > > in
> > > > Memphis about 100 miles away. i have sence started making
> > crystal
> > > > radios and i just got a Hitchi Ocilliscope V-212 20 MHz with
> the
> > > > origional manual for $30 dollars at a yard sale last weekend,
> > and
> > > a
> > > > job lead, was looking for an electronics assembly job here in
> > > Winston-
> > > > Salem NV.. i worked for Boeing assembling Avionics Controls
> for
```

> > > the
> > > > F22,18,16,15. the Osprey, Comanchie, B-1b, C17, Sea Launch and
> > > Delta
> > > > Rockets.
> > > >
> > > > i dont know much about electronics, but i really want to learn
> > > more
> > > > about analysis of problems.. that would be fun and open up my
> > > > employment options.
> > > >
> > > > i wll see if i can get my pictures in the files here...
> > > >
> > > >the high school physics class i teach is building an octogonal
> > loop
> > > out of pvc pipe. octogons come as close as practically possible
> to
> > > maximizing the area to perimeter ratio that a circle would.
> we're
> > > using 45 degree ells with tees between them all close spaced to
> > form
> > > a "core", with the tees "looking" radially outward. then we are
> > > inserting 8, two foot long radials into the tees. on the ends of
> > > each radial, we are putting 8 more tees turned at 90 degrees to
> > > create a 24 gage wire wrapping form.a few drops of super glue
> > holds
> > > the wraps in place. i'll post pics when it is done.
> > > >
> > >
> > %%%
> >
> > i am not sure about the supper glue,, it crystalizes in time and
> you
> > really need some flex , i had to pull the slack around mine
> because
> > as you wind the wire it effects the axial dementions.. i had to
> > incert flat wooden pieces over and under the wires at a rt angles
> to
> > them between the arms. then twist them 90* to make spreaders to
> > tighten up the wire.. it also provided a greater distance between
> > the wires and it works much better.. sort of came out like a
> simple
> > rook coil.. what are you using for a tuner..
> >our tuner is based on the gyrator II very low frequency circuit by
> al stokes and the american asociation of variable star observers (
> aavso). It is a simple rig with two TL-082 op amps, a few resistors,
> and capacitors. we got ours from stanford university's solar center.
> it is pre tuned to 24.8 KHz to recieve the navy submarine
> transmissions from jim creek, washington.
>
****

I ment to tune the antenna.. i use an old air variable out of a 50's am radio i found at the dump

61. this is all messed up.. how do i just get the current message in the box.. i am

Yahoo group: gccloopantennadesign
Date: 2006-10-23 12:33:56 UTC
From: passn_thru2
Topic: 61 Message: 61

autistic and the long running list with all the symbols on it totally confuses me.. i need to to keep the visuals simple..

each individual message in a seperate box.. i had to have another hard drive put in and now everything is now changed.. is there a way to just get question and answer in differint boxes..??

62. got it fixed at 'my yahoo groops', page.. and i posted the pictures of my loops

Yahoo group: gccloopantennadesign
Date: 2006-10-23 12:50:42 UTC
From: passn_thru2
Topic: 62 Message: 62

i found copies at another antenna group i frequent..

63. Looking around for 60 kHz loops to build

Yahoo group: gccloopantennadesign
Date: 2006-10-30 03:46:54 UTC
From: Adam E.
Topic: 63 Message: 63

Hello,

I am looking around for a loop antenna project that receives the
60 kHz frequency. My clock radio has this Atomic Clock built
into it but there is a seperate ferrite rod antenna that is attached
to it. My goal is to improve its reception by coupling a loop
antenna to it so it will keep the clock set more often. How do I
try to make a loop antenna that receives the WWVB 60 kHz frequency?

I do appreciate it if someone can help me with this project.

Adam E.

64. Re: Looking around for 60 kHz loops to build

Yahoo group: gccloopantennadesign
Date: 2006-10-31 22:39:40 UTC
From: mikebesonet
Topic: 63 Message: 64

--- In gccloopantennadesign@yahoogroups.com, "Adam E."
<gccengineering@...> wrote:
>
>
> Hello,
>
> I am looking around for a loop antenna project that receives the
> 60 kHz frequency. My clock radio has this Atomic Clock built
> into it but there is a seperate ferrite rod antenna that is attached
> to it. My goal is to improve its reception by coupling a loop
> antenna to it so it will keep the clock set more often. How do I
> try to make a loop antenna that receives the WWVB 60 kHz frequency?
>
> I do appreciate it if someone can help me with this project.
>
>
> Adam E.
>Hi, Adam, there is a free program on the internet to figure out the
amount of capacitance required to make any size loop resonate at any
frequency. Type into any search engine: RJELOOP.exe and you should be
taken there. I used the programe to give you an idea. If you built a
wooden cross frame and wound a loop that was meter square, with 40
turns of 22 gage insulated wire, it would require 1260 picofarads of
capacitance to tune the loop to resonate at 60 kHz. Good luck. Mike B.

65. i found a Loop with an interesting coil between the loop and the Air Variable

Yahoo group: gccloopantennadesign
Date: 2006-11-16 14:12:17 UTC
From: passn_thru2
Topic: 65 Message: 65

can anyone explain this for me.. i just found it interesting

66. Re: [gccloopantennadesign] i found a Loop with an interesting coil between th...

Yahoo group: gccloopantennadesign
Date: 2006-11-16 18:05:17 UTC
From: MAXXOUT2@AOL.COM
Topic: 66 Message: 66

Sounds like someone was trying to extend the range of the loop.
BOB
AF2Q

In a message dated 11/16/2006 6:24:33 AM Pacific Standard Time,
passn_thru2@... writes:

can anyone explain this for me.. i just found it interesting

67. hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-04-20 18:16:59 UTC
From: Keith Beesley
Topic: 67 Message: 67

Hi, I am a radio fan and dxer of many years, but a complete novice at electronics. Does anybody have a good, basic loop antenna plan that even a complete newbie can attempt with a reasonable hope of success?

Thanks,

Keith B.

68. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-04-21 09:05:41 UTC
From: passn_thru2
Topic: 67 Message: 68

--- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
<keith1226@...> wrote:
>
> Hi, I am a radio fan and dxer of many years, but a complete novice at
> electronics. Does anybody have a good, basic loop antenna plan that
> even a complete newbie can attempt with a reasonable hope of success?
>
> Thanks,
>
> Keith B.
>
>>

hi, i have to run to work but i will get back to you.

i have some AM am and FM Loop antenna plans i can post

check out my photos here, upper left blue box...

chat latter.....

69. RE: [gccloopantennadesign] Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-04-21 20:46:02 UTC
From: jeff philipp
Topic: 67 Message: 69

I have a great and easy antenna for you I just put it up 2 days ago and it surprisingly out performs my 66 foot windom at 45 feet. The average height of my new one is 7 feet off the ground!! It is a loop of wire and that's it. It runs into the wire input not the coax input of my ICOM R-75. This wire is old surplus 14 G. wire. It is carelessly thrown up and through bushes and trees around the perimeter of my house.

I live in a crowded san fernando valley housing tract in Los Angeles with a lot size of

60 feet X 150 feet. This loop is probably about 300 feet of wire. At one point it dose run over the roof of about 15 feet but like I said it averages 7 feet off the ground. I dose not get any easyer than that. good luck.

From: "passn_thru2"
Reply-To: gccloopantennadesign@yahoogroups.com
To: gccloopantennadesign@yahoogroups.com
Subject: [gccloopantennadesign] Re: hi, new member here
Date: Sat, 21 Apr 2007 09:05:41 -0000

--- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
..> wrote:
>
> Hi, I am a radio fan and dxer of many years, but a complete novice at
> electronics. Does anybody have a good, basic loop antenna plan that
> even a complete newbie can attempt with a reasonable hope of success?
>
> Thanks,
>
> Keith B.
>
>>

hi, i have to run to work but i will get back to you.

i have some AM am and FM Loop antenna plans i can post

check out my photos here, upper left blue box...

chat latter.....

70. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-04-22 18:31:21 UTC
From: Keith Beesley
Topic: 67 Message: 70

Thanks, Jeff and passn_thru for your suggestions so far. I picked up 100' of hookup wire at Radio Shack yesterday, now I just have to find something to use for a frame (maybe an old, big wooden picture frame?) and a variable capacitor and I think I'm good to go :-).

Will keep you guys posted,

Keith B.

--- In gccloopantennadesign@yahoogroups.com, "passn_thru2" <passn_thru2@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Keith Beesley" <keith1226@> wrote:
> >
> > Hi, I am a radio fan and dxer of many years, but a complete novice at
> > electronics. Does anybody have a good, basic loop antenna plan that
> > even a complete newbie can attempt with a reasonable hope of success?
> >
> > Thanks,
> >
> > Keith B.
> >
> >>
>
> hi, i have to run to work but i will get back to you.
>
> i have some AM am and FM Loop antenna plans i can post
>
> check out my photos here, upper left blue box...
>
> chat latter.....
>

71. Re: [gccloopantennadesign] Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-05-13 05:32:12 UTC
From: MrWhiz
Topic: 67 Message: 71

i have some links here.. the box style is easy.. just get some inch wide boards and make a box, glue and nail.. 18inches to 3 feet.. i am sure 18 inches or 2 feet would do just fine.. for local.. at nite you can get channels very far away.. i used a 14 inch tube, the one in my photo file, and got an AM channel 100 miles away very clear..

the larger loop i glued a plastic lid to the knob of the air variable so it could tune finer.. and marked the channel frequency on it.. i have an old Zenith i set on a known channels and find it and mark the frequency on the lid.. it helps to find the range of your antenna.. actually you need about 120 or 130 feet of wire.. i got some door bell wire at home depot.. it was a pain to unwind.. but is pretty cheap, i make a lot of Crystal tuning Coils.. usually you have to put a little too much wire on and then when one end of the frequency scale is missing.. you add or remove some so you can get both ends.. i have alligator clips on short pieces of wire to connect the wires.. solder joints impede the flow of power..

if the wires are one or 2 diameters apart the antenna will work better.. but it might not be noticeable/depends.. something to experiment with.. another thing about these antennas is if you are near a powerful transmitter you need to make a variometer to tune it out/it will cover up a large section of the spectrum.. see http://www.crystalradio.net or google: crystal radio variometer.. you can turn the flat side of the loop the transmitter and place your radio in the loop and turn it to loudest reception..right angle to the ferite in the radio..sometimes, there is a "Null" on the flat plane where it doesn't pick up.

http://www.mymorninglight.org/loopant.html and
http://www.geocities.com/sunsetstrip/underground/8585/loop.htm

todays radios dont have very big ferite antennas in them, which is why i started to make antennas.. you can find some old modular radios at good will or salvation army thrift stores.
they are usually big silver fronts and fake wood grane paper tops and sides.. i got an old Emmerson and a JVC tuner/amplifier..!! for $4 and $8..!!! they have 6 inch and 8 inch ferite antennas..!! and BIG air variable tuners.. i got a an old socket plug line and cut off one end and twisted the wire ends on the cnections on a speaker that didnt have the plugs.. cheap ones dont. the emerson has a cassette and 8 track tape player on it too.. it has 2 meters for the cassette record level.. the one onthe right is an antenna tuner..!! tells signal strength..

the loop antenna is tuned to the radio .. a station will get louder as you turn the knob on the loop, then turn the radio knob a little, then the loop..if nothing turn the loop back a little and repeat..

good luck.. let us know how it works out

Keith Beesley <keith1226@...> wrote:
Thanks, Jeff and passn_thru for your suggestions so far. I picked up
100' of hookup wire at Radio Shack yesterday, now I just have to
find something to use for a frame (maybe an old, big wooden picture

frame?) and a variable capacitor and I think I'm good to go :-).

Will keep you guys posted,

Keith B.

--- In gccloopantennadesign@yahoogroups.com, "passn_thru2"

wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
> wrote:
> >
> > Hi, I am a radio fan and dxer of many years, but a complete
novice at
> > electronics. Does anybody have a good, basic loop antenna plan
that
> > even a complete newbie can attempt with a reasonable hope of
success?
> >
> > Thanks,
> >
> > Keith B.
> >
> >>
>
> hi, i have to run to work but i will get back to you.
>
> i have some AM am and FM Loop antenna plans i can post
>
> check out my photos here, upper left blue box...
>
> chat latter.....
>

Yahoo! Groups Links

72. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-05-13 21:18:22 UTC
From: Keith Beesley
Topic: 67 Message: 72

Thanks, passn, a lot of great info there! I actually broke down and bought a 12" loop from a guy in Australia who sells them on ebay...but I still want to learn to make them. I want to try making a 24" one!

I LOVE thrift store radios...just discovered them a few weeks ago! I started buying them for parts, but when I get them home, most of them play so well and sound so good that I can't bear to take them apart! I just open them up to see what's inside, then I put them back together. It's amazing how good 50s,60s,70s and even some 80s radios are in terms of their build quality, reception and audio quality compared to the ones they make now. I have a Sony AM/FM table radio from, I guess, about 1970, and not only does it sound as good as many modern component systems, but it's very sensitive on both bands, even without any external antenna.

I will try your suggestions and let you know how it all works out.

KB
--- In gccloopantennadesign@yahoogroups.com, MrWhiz <passn_thru2@...> wrote:
>
> i have some links here.. the box style is easy.. just get some inch wide boards and make a box, glue and nail.. 18inches to 3 feet.. i am sure 18 inches or 2 feet would do just fine.. for local.. at nite you can get channels very far away.. i used a 14 inch tube, the one in my photo file, and got an AM channel 100 miles away very clear..
>
> the larger loop i glued a plastic lid to the knob of the air variable so it could tune finer.. and marked the channel frequency on it.. i have an old Zenith i set on a known channels and find it and mark the frequency on the lid.. it helps to find the range of your antenna.. actually you need about 120 or 130 feet of wire.. i got some door bell wire at home depot.. it was a pain to unwind.. but is pretty cheap, i make a lot of Crystal tuning Coils.. usually you have to put a little too much wire on and then when one end of the frequency scale is missing.. you add or remove some so you can get both ends.. i have alligator clips on short pieces of wire to connect the wires.. solder joints impede the flow of power..
>
> if the wires are one or 2 diameters apart the antenna will work better.. but it might not be noticeable/depends.. something to experiment with.. another thing about these antennas is if you are near a powerful transmitter you need to make a variometer to tune it out/it will cover up a large section of the spectrum.. see http://www.crystalradio.net or google: crystal radio variometer.. you can turn the flat side of the loop the transmitter and place your

radio in the loop and turn it to loudest reception..right angle to the ferite in the radio..sometimes, there is a "Null" on the flat plane where it doesn't pick up.
>
> http://www.mymorninglight.org/loopant.html and http://www.geocities.com/sunsetstrip/underground/8585/loop.htm
>
> todays radios dont have very big ferite antennas in them, which is why i started to make antennas.. you can find some old modular radios at good will or salvation army thrift stores.
> they are usually big silver fronts and fake wood grane paper tops and sides.. i got an old Emmerson and a JVC tuner/amplifier..!! for $4 and $8..!!! they have 6 inch and 8 inch ferite antennas..!! and BIG air variable tuners.. i got a an old socket plug line and cut off one end and twisted the wire ends on the cnections on a speaker that didnt have the plugs.. cheap ones dont. the emerson has a cassette and 8 track tape player on it too.. it has 2 meters for the cassette record level.. the one onthe right is an antenna tuner..!! tells signal strength..
>
> the loop antenna is tuned to the radio .. a station will get louder as you turn the knob on the loop, then turn the radio knob a little, then the loop..if nothing turn the loop back a little and repeat..
>
> good luck.. let us know how it works out
>
>
> Keith Beesley <keith1226@...> wrote:
> Thanks, Jeff and passn_thru for your suggestions so far. I picked up
> 100' of hookup wire at Radio Shack yesterday, now I just have to
> find something to use for a frame (maybe an old, big wooden picture
> frame?) and a variable capacitor and I think I'm good to go :-).
>
> Will keep you guys posted,
>
> Keith B.
>
>
> --- In gccloopantennadesign@yahoogroups.com, "passn_thru2"
>
> wrote:
> >
> > --- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
> > wrote:
> > >
> > > Hi, I am a radio fan and dxer of many years, but a complete
> novice at
> > > electronics. Does anybody have a good, basic loop antenna plan
> that
> > > even a complete newbie can attempt with a reasonable hope of

> success?
> > >
> > > Thanks,
> > >
> > > Keith B.
> > >
> > >>>
> >
> > hi, i have to run to work but i will get back to you.
> >
> > i have some AM am and FM Loop antenna plans i can post
> >
> > check out my photos here, upper left blue box...
> >
> > chat latter.....
> >
>
>
>
>
>
> Yahoo! Groups Links
>

73. Replacement Variable Tuning Cap for Terk AM Loop

Yahoo group: gccloopantennadesign
Date: 2007-08-22 23:24:25 UTC
From: Adam E.
Topic: 73 Message: 73

Hello,

I am looking for a replacement variable tuning capacitor for the Terk AM loop antenna. The problem is that I have some but they are not meeting the range requirements. The problem is that I connected one of them to the loop circuit in the frame. The range seems to come out to be 680 to 1720 kHz. I need a range at least 510 kHz to 1710 kHz for it work right. I don't know what happen but the original variable tuning cap does not work anymore. Can someone help direct me to sources that will meet my specs. Thank you.

74. Re: [gccloopantennadesign] Replacement Variable Tuning Cap for Terk AM Loop

Yahoo group: gccloopantennadesign
Date: 2007-08-23 02:46:49 UTC
From: MAXXOUT2@AOL.COM
Topic: 73 Message: 74

A regular old AM radio or crystal set cap should work
APPX 14 to 365 pf
Their very common on ebay
Vegas/

In a message dated 8/22/2007 4:25:57 PM Pacific Standard Time,
gccengineering@... writes:

The range
seems to come out to be 680 to 1720 kHz. I need a range at least
510 kHz to 1710 kHz for it work right. I don't know what happen
but the original variable tuning cap does not work anymore. Can
someone help direct me to sources that will meet my specs. Thank you.

********** Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

75. Re: [gccloopantennadesign] Replacement Variable Tuning Cap for Terk AM Loop

Yahoo group: gccloopantennadesign
Date: 2007-09-02 12:44:37 UTC
From: MrWhiz
Topic: 73 Message: 75

I'd check out http://www.midnightscience.com the Crystal Queen is a wonderful educator and her newsletter is wonderful and she is doing a wonderful service for the children of the world or http://www.crystalradiosupply.com or google crystal radio parts, the only place i have had trouble with is crystalrad.com you can try them, you may get what you ordered you may get something else or you may not get it al all... dealing with them has proved imposable for me, they do have the best mounted detector crystals i have seen..i did get those, i found their detectors and the radio units i bought Very lacking in quality , i was very disappointed in my experience with them, i will not deal with them again..

http://www.crystalradio.net is the BEST source of Xtal radios on the web.. and google Dave's cryatal radios.... the finest radio artist in the world

MAXXOUT2@... wrote:
A regular old AM radio or crystal set cap should work
APPX 14 to 365 pf
Their very common on ebay
Vegas/

In a message dated 8/22/2007 4:25:57 PM Pacific Standard Time, gccengineering@... writes:
The range
seems to come out to be 680 to 1720 kHz. I need a range at least
510 kHz to 1710 kHz for it work right. I don't know what happen
but the original variable tuning cap does not work anymore. Can
someone help direct me to sources that will meet my specs. Thank you.

Get a sneak peek of the all-new AOL.com.

76. Re: [gccloopantennadesign] Replacement Variable Tuning Cap for Terk AM Loop

Yahoo group: gccloopantennadesign
Date: 2007-08-30 09:51:45 UTC
From: MAXXOUT2@AOL.COM
Topic: 73 Message: 76

I think I responded to this over 1 month ago and it comes out today.
BOB
AF2Q

In a message dated 8/29/2007 9:10:32 PM Pacific Standard Time,
MAXXOUT2@... writes:

A regular old AM radio or crystal set cap should work
APPX 14 to 365 pf
Their very common on ebay
Vegas/

In a message dated 8/22/2007 4:25:57 PM Pacific Standard Time,
gccengineering@... writes:

The range
seems to come out to be 680 to 1720 kHz. I need a range at least
510 kHz to 1710 kHz for it work right. I don't know what happen
but the original variable tuning cap does not work anymore. Can
someone help direct me to sources that will meet my specs. Thank you.

********** Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

77. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-10-25 03:09:03 UTC
From: tenorman1952
Topic: 67 Message: 77

--- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
<keith1226@...> wrote:
>
> Hi, I am a radio fan and dxer of many years, but a complete novice at
> electronics. Does anybody have a good, basic loop antenna plan that
> even a complete newbie can attempt with a reasonable hope of success?
>
> Thanks,
>
> Keith B.
>

This one works great for AM.

http://members.cox.net/rwagoner/columns/am_antenna.html

I have built several of these, and receive AM stations (at night, of
course, as far away as 1000 miles.

You may also want to try a tuned loop.

These links should get you started:

http://www.mindspring.com/~loop_antenna/

http://www.mindspring.com/~loop_antenna/amloop2.htm

http://www.mindspring.com/~loop_antenna/styrofoam.htm

... which work like this:

http://youtube.com/watch?v=QpGXECoY6zg

http://youtube.com/watch?v=6HRZcTL15ZA

Here's the tuning capacitor you need for all of these antennae:

http://www.crystalradiosupply.com/home.html?lang=en-us&target=p42.html

http://www.crystalradiosupply.com also has 22 ga wire for winding the
loops. List on the left, scroll to the bottom, get 100' of 22 ga.

...or same tuning capacitor here

http://www.midnightscience.com/catalog5.html

Here's a good kit of a tuned loop:

http://www.mtmscientific.com/loop.html

78. Re: Looking around for 60 kHz loops to build

Yahoo group: gccloopantennadesign
Date: 2007-10-25 03:15:12 UTC
From: tenorman1952
Topic: 63 Message: 78

Here is a loop calculator for square loops:

http://www.angelfire.com/mb/amandx/loop.html

--- In gccloopantennadesign@yahoogroups.com, "mikebesonet"
<mikebesonet@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Adam E."
> <gccengineering@> wrote:
> >
> >
> > Hello,
> >
> > I am looking around for a loop antenna project that receives the
> > 60 kHz frequency. My clock radio has this Atomic Clock built
> > into it but there is a seperate ferrite rod antenna that is
attached
> > to it. My goal is to improve its reception by coupling a loop
> > antenna to it so it will keep the clock set more often. How do I
> > try to make a loop antenna that receives the WWVB 60 kHz
frequency?
> >
> > I do appreciate it if someone can help me with this project.
> >
> >
> > Adam E.
> >Hi, Adam, there is a free program on the internet to figure out
the
> amount of capacitance required to make any size loop resonate at
any
> frequency. Type into any search engine: RJELOOP.exe and you should
be
> taken there. I used the programe to give you an idea. If you built
a
> wooden cross frame and wound a loop that was meter square, with 40
> turns of 22 gage insulated wire, it would require 1260 picofarads
of
> capacitance to tune the loop to resonate at 60 kHz. Good luck. Mike
B.
>

79. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-10-29 18:38:24 UTC
From: tenorman1952
Topic: 67 Message: 79

--- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
<keith1226@...> wrote:
>
> Hi, I am a radio fan and dxer of many years, but a complete novice at
> electronics. Does anybody have a good, basic loop antenna plan that
> even a complete newbie can attempt with a reasonable hope of success?
>
> Thanks,
>
> Keith B.

Keith, these plans work...

First, an untuned loop. This is a simple cross shaped form with 4
turns of 22 ga hookup wire wrapped around it. No tuning capacitor, but
it works quite well.

http://members.cox.net/rwagoner/columns/am_antenna.html

I purchased my first few as kits from ebay seller jburns1987. The kits
are well done, needing only light sanding and finish of your choice.

Photo of one of my untuned Carver Ultimate AM Loops.

http://i15.photobucket.com/albums/a384/PaulCoats/PaulsUltimateLoopE.jpg

I've also built this antenna from MTM Scientific:

http://www.mtmscientific.com/loop.html

It is sold as a plan set, with full size plans and tuning capacitor
(9.6-365 pf). I added a pickup loop to feed my stereo tuners and
receivers. I did this by simply drilling a 1/16" hole 1/4" end from
the ends of the crossarms, and running one loop around just inside of
the main coils of the antenna. I led these to a pair of binding posts,
and connect to the receiver's AM and Ground posts with ordinary 300 ohm
twinlead. The antenna will still work via induction to a portable, no
wired connection at all.

Bruce Carter's site,

http://www.mindspring.com/~loop_antenna/

has excellent plans for tuned loops, plus a loop calculator so that you
can make your own.

Paul

80. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-10-28 02:46:10 UTC
From: tenorman1952
Topic: 67 Message: 80

--- In gccloopantennadesign@yahoogroups.com, "Keith Beesley" <keith1226@...> wrote:
>
> Hi, I am a radio fan and dxer of many years, but a complete novice at
> electronics. Does anybody have a good, basic loop antenna plan that
> even a complete newbie can attempt with a reasonable hope of success?
>
> Thanks,
>
> Keith B.

Keith: I have had good success with two loops. First is the Carver "Ultimate AM Loop" described here.

http://members.cox.net/rwagoner/columns/am_antenna.html

This is an untuned loop, very easy to build, just 4 turns of wire around the form.

A photo of mine built from a kit here:

http://i15.photobucket.com/albums/a384/PaulCoats/PaulsUltimateLoopE.jpg

There is an ebay seller jburns1987 that kits these. All required is some light sanding, finish of your choice, and about 15 minutes of assembly time.

I have built two of these kits, and built similar from scratch. I have received AM stations, at night, as far away as 1000 miles. I can also easily hear, in daytime, a 5,000 watt station 190 miles away.

I have also built a tuned loop. It uses a standard 9.6-365 pf tuning capacitor.

This was built from plans purchased from MTM Scientific. Plan set included the nice tuning capacitor. Also available as a full kit with all wood and other parts needed. And available as a fully assembled antenna.

http://www.mtmscientific.com/loop.html

This loop can work by induction, just placing a radio with a ferrite rod antenna nearby. To connect to my AM/FM tuners and receivers requires adding a pickup loop to the antenna. I did this by drilling a 1/16" hole 1/4" from the end of each crossarm, and running one turn of wire around through those holes, and the ends to binding posts. I use ordinary 300 ohm twinlead to connect from those binding posts to the AM and Ground terminals on my receiver.

Photos here:

http://i15.photobucket.com/albums/a384/PaulCoats/01MTMAMTunedLoopWeb.jpg

http://i15.photobucket.com/albums/a384/PaulCoats/02MTMTuningCapacitorWeb.jpg

http://i15.photobucket.com/albums/a384/PaulCoats/04MTMPickupLoopWeb.jpg

http://i15.photobucket.com/albums/a384/PaulCoats/03MTMPickupLoopTerminalsWeb.jpg

Here are more good plans:

http://www.mindspring.com/~loop_antenna/

81. Sorry for the multiple posts

Yahoo group: gccloopantennadesign
Date: 2007-10-31 23:08:56 UTC
From: tenorman1952
Topic: 81 Message: 81

Sorry for the multiple posts on the same subject. For whatever reason, my posts were delayed, not going through. In fact, I was about to quit the group altogether.

Paul

82. Re: Sorry for the multiple posts

Yahoo group: gccloopantennadesign
Date: 2007-11-02 12:50:56 UTC
From: Adam E.
Topic: 81 Message: 82

Paul,

Most of the messeges are not going through cause I have not been online for a while. I don't have a accurate connection to the internet most of the time. I have to run the radio station, and also build some circuits on a breadboard. And I forget to approve messeges. Most of the moderation is for mostly new members that just joined this group and other groups. I will switch it to unmoderated so I can keep the flowing of the traffic. When I see spam I will be deleting it and ban the member who posted it. Thanks for letting me know about this. I will be trying to get back soon into posting projects soon. Take care for now.

--- In gccloopantennadesign@yahoogroups.com, "tenorman1952" <tenorman1952@...> wrote:
>
> Sorry for the multiple posts on the same subject. For whatever reason,
> my posts were delayed, not going through. In fact, I was about to quit
> the group altogether.
>
> Paul
>

84. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-11-02 13:21:24 UTC
From: tenorman1952
Topic: 67 Message: 84

--- In gccloopantennadesign@yahoogroups.com, "tenorman1952"
<tenorman1952@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
> <keith1226@> wrote:
> >
> Keith: I have had good success with two loops. First is the
> Carver "Ultimate AM Loop" described here.
>
> http://members.cox.net/rwagoner/columns/am_antenna.html
>
> This is an untuned loop, very easy to build, just 4 turns of wire
> around the form.

A disclaimer about this antenna... it will not work with radios with an
internal ferrite rod loop. But it does work very well with ordinary
stereo tuners/receivers that have no built in antenna.

Paul

85. passn_thru2's FM loop

Yahoo group: gccloopantennadesign
Date: 2007-11-07 14:30:40 UTC
From: tenorman1952
Topic: 62 Message: 85

So, about your FM loop... how does it work?

Paul

86. Re: hi, new member here

Yahoo group: gccloopantennadesign
Date: 2007-11-06 13:41:30 UTC
From: tenorman1952
Topic: 67 Message: 86

--- In gccloopantennadesign@yahoogroups.com, "tenorman1952"
<tenorman1952@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Keith Beesley"
> <keith1226@> wrote:
> >
> > Hi, I am a radio fan and dxer of many years, but a complete
novice at
> > electronics. Does anybody have a good, basic loop antenna plan
that
> > even a complete newbie can attempt with a reasonable hope of
success?
> >
> > Thanks,
> >
> > Keith B.
>

Keith, I've just created a folder in the Photos
section, "tenorman1952's loops".

Paul

87. New Member Here

Yahoo group: gccloopantennadesign
Date: 2007-12-18 06:11:35 UTC
From: metrobase201
Topic: 87 Message: 87

Hi, my name is Ralph and I go by MetroBase, and my call is KC2JXC. I'm a SWL+MW+LW listener since the 1970's. I'am crazy about magnetic loops and have built a Loop for shortwave, based on KR1ST design with some modification. (http://www.kr1st.com/swlloop.htm) I will post a photo soon. I am currently working on a MW loop and will post a photo as well. I own a Grundig g5, a sony 7600gr and the sony icf- sw07. Looking to chat with fellow listeners. Cheers

88. Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-12 21:54:04 UTC
From: metrobase201
Topic: 88 Message: 88

When placing a capacitor on a loop, does it make any difference if the capacitor is inside or outside of the loop? Anybody?

89. Re: [gccloopantennadesign] Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-12 22:02:17 UTC
From: John Popelish
Topic: 88 Message: 89

metrobase201 wrote:
> When placing a capacitor on a loop, does it make any difference if the
> capacitor is inside or outside of the loop? Anybody?

I think the metal body of the capacitor will circulate more
eddy current in response to the loop's magnetic field if it
is inside the loop than if it is outside it. This, just
because the field is stronger inside, especially close to
the loop. Once you get a small fraction of the loop
diameter outside the loop, the magnetic field is very much
smaller, so the metal of the capacitor will have a
diminished effect on the loop's magnetic field.

--
Regards,

John Popelish

90. Re: [gccloopantennadesign] Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-13 00:45:53 UTC
From: aimo ruoho
Topic: 88 Message: 90

I've been using my ATUs with my 13 loops as well as many other different antennas. I've been wondering, if there is much difference, if the ATU and the antenna are far away from each other? I have 6 ATUs and 4 precelectors. My best receiver is TEN-TEC RX340. I can't afford a better and many (tens of) times more expencive receiver! If I want a good sound, I drive this receiver through my SONY CRF-220's AF amplifier, because TEN-TEC doesn't have a good one inside!
I plan to drive my home made hula hoop loop on my roof with a directive motor. It already gives a rather strong signal, which is a big surprise to me. Using the ATU's amplifier it beats my wire antennas as well as high verticals and broom stics. I think, that I will postpone bying a Wellbrook to time indefinite... It's nice to experiment! Home brewing is a wonderful hobby, too.

----- Original Message ----
From: John Popelish <jpopelish@...>
To: gccloopantennadesign@yahoogroups.com
Sent: Saturday, January 12, 2008 11:02:17 PM
Subject: Re: [gccloopantennadesign] Capacitor question for the group

metrobase201 wrote:
> When placing a capacitor on a loop, does it make any difference if the
> capacitor is inside or outside of the loop? Anybody?

I think the metal body of the capacitor will circulate more
eddy current in response to the loop's magnetic field if it
is inside the loop than if it is outside it. This, just
because the field is stronger inside, especially close to
the loop. Once you get a small fraction of the loop
diameter outside the loop, the magnetic field is very much
smaller, so the metal of the capacitor will have a
diminished effect on the loop's magnetic field.

--
Regards,

John Popelish

_____
Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

91. Re: [gccloopantennadesign] Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-13 02:13:45 UTC
From: John Popelish
Topic: 88 Message: 91

aimo ruoho wrote:
> I've been using my ATUs with my 13 loops as well as many
other different antennas. I've been wondering, if there is
much difference, if the ATU and the antenna are far away
from each other?
(snip)

The Q of the tuning unit resonance will go down as you put
the loss of more transmission line between it and the
antenna, unless most of what is doing is correcting for
using the wrong impedance transmission line. I would want
to have the ATU as close as was convenient to the loop , but
not inside the loop area, itself.

Perhaps someone with more experience can correct me on these
preconceptions.

--
Regards,

John Popelish

92. Re: [gccloopantennadesign] Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-13 13:27:08 UTC
From: aimo ruoho
Topic: 88 Message: 92

Thanks for your prompt reply, John Popelish!

Should I connect an Amidon Toroid in between my loop and the coax cable?

I just am not sure about how much windings I should use on the Toroid.

Could I use instead of the Toroid ring a small ferrite stick?

If, so how about the windings, grounding etcetera?

Thanks again from Ami (Aimo Ruoho) and Best Regards!

----- Original Message ----
From: John Popelish <jpopelish@...>
To: gccloopantennadesign@yahoogroups.com
Sent: Sunday, January 13, 2008 3:13:45 AM
Subject: Re: [gccloopantennadesign] Capacitor question for the group

aimo ruoho wrote:
> I've been using my ATUs with my 13 loops as well as many
other different antennas. I've been wondering, if there is
much difference, if the ATU and the antenna are far away
from each other?
(snip)

The Q of the tuning unit resonance will go down as you put
the loss of more transmission line between it and the
antenna, unless most of what is doing is correcting for
using the wrong impedance transmission line. I would want
to have the ATU as close as was convenient to the loop , but
not inside the loop area, itself.

Perhaps someone with more experience can correct me on these
preconceptions.

--
Regards,

John Popelish

_____
Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

93. Re: [gccloopantennadesign] Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-13 16:49:50 UTC
From: John Popelish
Topic: 88 Message: 93

aimo ruoho wrote:
> Thanks for your prompt reply, John Popelish!
>
> Should I connect an Amidon Toroid in between my loop and the coax cable?

What purpose would it serve? Would it be part of a tuning
reactance or acting as a balun to convert a balanced signal
into an unbalanced one?

> I just am not sure about how much windings I should use on the Toroid.

That would depend on its intended purpose and connection scheme.

> Could I use instead of the Toroid ring a small ferrite stick?

Generally, inductance and transformers can be constructed
with many core forms, and with no core, at all.

> If, so how about the windings, grounding etcetera?
>
> Thanks again from Ami (Aimo Ruoho) and Best Regards!

All these details depend on the design of the loop, its
intended frequency range and other facts about the system.
I have no idea about any of these facts.

--
Regards,

John Popelish

94. Re: Capacitor question for the group

Yahoo group: gccloopantennadesign
Date: 2008-01-17 05:45:45 UTC
From: metrobase201
Topic: 88 Message: 94

--- In gccloopantennadesign@yahoogroups.com, aimo ruoho
<aimounto@...> wrote:
>
> Thanks for your prompt reply, John Popelish!
>
> Should I connect an Amidon Toroid in between my loop and the coax
cable?
>
> I just am not sure about how much windings I should use on the
Toroid.
>
> Could I use instead of the Toroid ring a small ferrite stick?
>
> If, so how about the windings, grounding etcetera?
>
> Thanks again from Ami (Aimo Ruoho) and Best Regards!
>
>
> ----- Original Message ----
> From: John Popelish <jpopelish@...>
> To: gccloopantennadesign@yahoogroups.com
> Sent: Sunday, January 13, 2008 3:13:45 AM
> Subject: Re: [gccloopantennadesign] Capacitor question for the group
>
> aimo ruoho wrote:
> > I've been using my ATUs with my 13 loops as well as many
> other different antennas. I've been wondering, if there is
> much difference, if the ATU and the antenna are far away
> from each other?
> (snip)
>
> The Q of the tuning unit resonance will go down as you put
> the loss of more transmission line between it and the
> antenna, unless most of what is doing is correcting for
> using the wrong impedance transmission line. I would want
> to have the ATU as close as was convenient to the loop , but
> not inside the loop area, itself.
>
> Perhaps someone with more experience can correct me on these
> preconceptions.
>
> --
> Regards,
>
> John Popelish

>
>
> Thank you all in the group for the replys.
MetroBase
>
>

> Never miss a thing. Make Yahoo your home page.
> http://www.yahoo.com/r/hs
>

95. How many turns? Anybody??

Yahoo group: gccloopantennadesign
Date: 2008-01-18 04:04:35 UTC
From: metrobase201
Topic: 95 Message: 95

I have a 18"x18" square for a MW loop. How many turns of wire should I make?
Thank you in advance.
MetroBase

96. Re: [gccloopantennadesign] How many turns? Anybody??

Yahoo group: gccloopantennadesign
Date: 2008-01-18 05:05:42 UTC
From: John Popelish
Topic: 95 Message: 96

metrobase201 wrote:
> I have a 18"x18" square for a MW loop. How many turns of wire should I
> make?

8.

No, really, it depends on the spacing between the turns,
because that changes the inter-winding capacitance.
Increase the space between turns and you can increase the
number of turns without creating a resonance below the band
you want to receive. But try 8.

--
Regards,

John Popelish

97. Re: How many turns? Anybody??

Yahoo group: gccloopantennadesign
Date: 2008-01-18 06:06:48 UTC
From: metrobase201
Topic: 95 Message: 97

--- In gccloopantennadesign@yahoogroups.com, John Popelish
<jpopelish@...> wrote:
>
> metrobase201 wrote:
> > I have a 18"x18" square for a MW loop. How many turns of wire
should I
> > make?
>
> 8.
>
> No, really, it depends on the spacing between the turns,
> because that changes the inter-winding capacitance.
> Increase the space between turns and you can increase the
> number of turns without creating a resonance below the band
> you want to receive. But try 8.
>
> --
> Regards,
>
> John Popelish
>

John Thanks so much for getting back so soon. At first I had 18 turns spaced about a 1/4 inch with a 9-265 variable capacitor with the radio place inside. And it and I was able to tune the capacitor to peak the signal to resonance the AM band. Then I tryed it the next day and it didnt work again. I rewind (magentic wire ala radio shack. very thin)again with another capacitor and another of my radios, still nothing. I tryed 13 turns again notthing. The radio is very close in fact in side the square, and turned in the opposite plane. Tell me John what went wrong, what am I'm I not doing. I made a short wave magentic loop and that works great.
Your friend
MetroBase

98. Re: [gccloopantennadesign] Re: How many turns? Anybody??

Yahoo group: gccloopantennadesign
Date: 2008-01-18 15:59:56 UTC
From: John Popelish
Topic: 95 Message: 98

metrobase201 wrote:

> John Thanks so much for getting back so soon. At first I had 18 turns
> spaced about a 1/4 inch with a 9-265 variable capacitor with the
> radio place inside. And it and I was able to tune the capacitor to
> peak the signal to resonance the AM band. Then I tryed it the next
> day and it didnt work again. I rewind (magentic wire ala radio
> shack. very thin)again with another capacitor and another of my
> radios, still nothing. I tryed 13 turns again notthing. The radio is
> very close in fact in side the square, and turned in the opposite
> plane. Tell me John what went wrong, what am I'm I not doing. I made
> a short wave magentic loop and that works great.

I can only guess. Have you gotten a flake of solder inside
your capacitor, shorting it out, or something silly, like
that? Antennas don't work one day and quite the next,
unless something physical has changed. Time for a careful
inspection.
--
Regards,

John Popelish

99. OK I give up!!!

Yahoo group: gccloopantennadesign
Date: 2008-01-19 06:55:40 UTC
From: metrobase201
Topic: 99 Message: 99

On this one, my specs must be wrong. Can someone give me some measurement for a X frame edge wind loop that they have tryed and work. Also the number of turns and space in between turns. I've order a couple of turning capacitors range of 10 to 365 pf from Xtal Set Society and should be getting them this coming week. In the meantime I can start construction on the frame. Please help me, I would be greatly indebted. Your Friend,

73's
MetroBase
Ralph
Bronx NY

100. Magnet wire, can it be used on a MW loop????

Yahoo group: gccloopantennadesign
Date: 2008-01-23 01:54:42 UTC
From: metrobase201
Topic: 100 Message: 100

Magnet wire, can it be used on a MW loop????

I have a 18"x18" edge wound loop and a 9-365 pf capacitor. I wanted to replace the speaker wire with magnet wire 26 gauge. After doing so the loop does not responde at all when turning via the capacitor. I took it all apart and put back the speaker junk wire and it works properly. I'm Baffled, can anybody explain this? Thank you so much if you can.

73's

-MetroBase
Bronx NY

101. Re: OK I give up!!!

Yahoo group: gccloopantennadesign
Date: 2008-01-19 16:29:14 UTC
From: Steve
Topic: 99 Message: 101

Try Bruce Carter's page. Several formulas, lots of links, and he's
created some Javascript calculators for loop antennas.
http://www.mindspring.com/~loop_antenna/

Check the links at the loopantennas list.
http://groups.yahoo.com/group/loopantennas/links

There is also a file in the Files section with a -lot- more links I've
not had a chance to sort into the Links area.
http://groups.yahoo.com/group/loopantennas/files/Links.txt

Steve Greenfield

--- In gccloopantennadesign@yahoogroups.com, "metrobase201"
<kc2jxc@...> wrote:
>
> On this one, my specs must be wrong. Can someone give me some
> measurement for a X frame edge wind loop that they have tryed and work.
> Also the number of turns and space in between turns. I've order a
> couple of turning capacitors range of 10 to 365 pf from Xtal Set
> Society and should be getting them this coming week. In the meantime I
> can start construction on the frame. Please help me, I would be greatly
> indebted. Your Friend,
>
> 73's
> MetroBase
> Ralph
> Bronx NY
>

102. Re: OK I give up!!!

Yahoo group: gccloopantennadesign
Date: 2008-01-24 22:04:51 UTC
From: metrobase201
Topic: 99 Message: 102

Steve thank you and all in the group so much. As you said the trouble all along was that (and your gonna laugh) I fail to remove the enamal coating at the contact points for the magnet wire I used to make the coil. So once removed and contact made w/ capacitor all works great. Will post pics soon.

-MetroBase
Bronx NY

--- In gccloopantennadesign@yahoogroups.com, "Steve" <alienrelics@...> wrote:
>
> Try Bruce Carter's page. Several formulas, lots of links, and he's
> created some Javascript calculators for loop antennas.
> http://www.mindspring.com/~loop_antenna/
>
> Check the links at the loopantennas list.
> http://groups.yahoo.com/group/loopantennas/links
>
> There is also a file in the Files section with a -lot- more links I've
> not had a chance to sort into the Links area.
> http://groups.yahoo.com/group/loopantennas/files/Links.txt
>
> Steve Greenfield
>
> --- In gccloopantennadesign@yahoogroups.com, "metrobase201"
> <kc2jxc@> wrote:
> >
> > On this one, my specs must be wrong. Can someone give me some
> > measurement for a X frame edge wind loop that they have tryed and work.
> > Also the number of turns and space in between turns. I've order a
> > couple of turning capacitors range of 10 to 365 pf from Xtal Set
> > Society and should be getting them this coming week. In the meantime I
> > can start construction on the frame. Please help me, I would be greatly
> > indebted. Your Friend,
> >
> > 73's
> > MetroBase
> > Ralph
> > Bronx NY
> >
>

103. I Need Some Instructions for a LW Loop Antenna

Yahoo group: gccloopantennadesign
Date: 2008-02-06 00:24:34 UTC
From: Adam E.
Topic: 103 Message: 103

Hello,

Is is possible that someone can provide me instructions on how to make a loop antenna thats for the Longwave bands that covers at 150 to 520 kHz.

I have been hearing alot about MW loop antennas but not LW.

What is the secret or how to design them?

Adam E.

104. Re: I Need Some Instructions for a LW Loop Antenna

Yahoo group: gccloopantennadesign
Date: 2008-04-06 14:58:07 UTC
From: heinzd777
Topic: 103 Message: 104

Dear Adam,
I just built a square loop antenna for the longwave band. The range is
from ca. 140 kHz to 650 kHz.

Now the data:
Side length: 74 cm (29")
Turns: 25, with a distance of ca. 4 mm (0.16")
Capacitor: 20 to 1360 pF (3x445 pF)
Coupling: Inductive
...and a lot of wood :-)

I put a picture into the Photos section (Heinz Loop Antennas), because
I am thinking about building more loops, e.g. the mediumwave and the
FM band.

Perhaps this helps you.
Good luck,

Heinz

--- In gccloopantennadesign@yahoogroups.com, "Adam E."
<gccengineering@...> wrote:
>
>
> Hello,
>
> Is is possible that someone can provide me instructions on how to make
> a loop antenna thats for the Longwave bands that covers at 150 to 520
> kHz.
>
> I have been hearing alot about MW loop antennas but not LW.
>
> What is the secret or how to design them?
>
> Adam E.
>

105. Re: I Need Some Instructions for a LW Loop Antenna

Yahoo group: gccloopantennadesign
Date: 2008-05-25 00:14:44 UTC
From: Adam E.
Topic: 103 Message: 105

Heinz, Thanks for making such a loop antenna. I would need lots of
wood to build this one. Its a good suggestion though. Great work!
on such an antenna. What did you pick up with that loop antenna?

Adam E.

-- In gccloopantennadesign@yahoogroups.com, "heinzd777"
<h-d.hildebrandt@...> wrote:
>
> Dear Adam,
> I just built a square loop antenna for the longwave band. The range is
> from ca. 140 kHz to 650 kHz.
>
> Now the data:
> Side length: 74 cm (29")
> Turns: 25, with a distance of ca. 4 mm (0.16")
> Capacitor: 20 to 1360 pF (3x445 pF)
> Coupling: Inductive
> ...and a lot of wood :-)
>
> I put a picture into the Photos section (Heinz Loop Antennas), because
> I am thinking about building more loops, e.g. the mediumwave and the
> FM band.
>
> Perhaps this helps you.
> Good luck,
>
> Heinz
>
>
> --- In gccloopantennadesign@yahoogroups.com, "Adam E."
> <gccengineering@> wrote:
> >
> >
> > Hello,
> >
> > Is is possible that someone can provide me instructions on how to make
> > a loop antenna thats for the Longwave bands that covers at 150 to 520
> > kHz.
> >
> > I have been hearing alot about MW loop antennas but not LW.
> >
> > What is the secret or how to design them?
> >
> > Adam E.

> >
>

106. Ultimate AM antenna question

Yahoo group: gccloopantennadesign
Date: 2008-06-14 02:36:51 UTC
From: jsmithers70
Topic: 106 Message: 106

I want to improve my AM reception and am considering building the above antenna and attaching it to a tree outside my house. My question is, do you connect both ends of the wire that you have wound around the frame together and join them to the centre wire of a shielded cable and just connect the set end of the shield to the earth terminal of the radio
leaving the frame end of the shield unconnected?

Any help would be appreciated.

107. Re: [gccloopantennadesign] Ultimate AM antenna question

Yahoo group: gccloopantennadesign
Date: 2008-06-14 08:53:15 UTC
From: C. Beijersbergen
Topic: 106 Message: 107

hello jsmithers70 (do you have any other name?)

At first I did not know what antenna you were referring to, but after Googling for "AM loop"I found this:
http://members.cox.net/rwagoner/columns/am_antenna.html
I assume this is the antenna you want to build.
I agree that it is not quit clear how to connect the ends of the loop to the coax. But if you connect both ends together to the centre condeuctor of the coax it would not be a loop any longer, just a short piece of wire. So my interpretation is to connect one end to the center connector and the other to th coax shield.
It is indeed a simple design and it might give good results, but when you look around on the net for AM loop antennas you will find a lot more interesting designs that will perform better. Quit popular is the tuned square loop with 1m side length.
But: keep us posted about your findings, please.

regards,

Cor Beijersbergen

108. Re: Ultimate AM antenna question

Yahoo group: gccloopantennadesign
Date: 2008-06-14 12:01:44 UTC
From: jsmithers70
Topic: 106 Message: 108

Thanks Cor, I will give this one a try and will let you know how I get on. I will have to wait until after the weekend to buy the materials but will be in touch.

Thanks for the advice.

Cheers

John

--- In gccloopantennadesign@yahoogroups.com, "C. Beijersbergen" <c.beijersbergen@...> wrote:
>
> hello jsmithers70 (do you have any other name?)
>
> At first I did not know what antenna you were referring to, but after Googling for "AM loop"I found this:
> http://members.cox.net/rwagoner/columns/am_antenna.html
> I assume this is the antenna you want to build.
> I agree that it is not quit clear how to connect the ends of the loop to the coax. But if you connect both ends together to the centre condeuctor of the coax it would not be a loop any longer, just a short piece of wire. So my interpretation is to connect one end to the center connector and the other to th coax shield.
> It is indeed a simple design and it might give good results, but when you look around on the net for AM loop antennas you will find a lot more interesting designs that will perform better. Quit popular is the tuned square loop with 1m side length.
> But: keep us posted about your findings, please.
>
> regards,
>
> Cor Beijersbergen
>

109. Help with SW Loop Antenna Plans

Yahoo group: gccloopantennadesign
Date: 2008-06-30 03:38:20 UTC
From: Adam E.
Topic: 109 Message: 109

Heinz and others,

I need some support on how to build a SW Loop Antenna. You know the one that hangs up on a curtian rod or on the window? I want it to be tunable, but is it possible that all I need is antenna wire and solid loop that couples the loop?

If you don't understand heres a link for the kit, I might just stop hesitating and buy this kit here soon:

http://www.mtmscientific.com/swloop.html

Adam E.

Take care.

110. Re: [gccloopantennadesign] Help with SW Loop Antenna Plans

Yahoo group: gccloopantennadesign
Date: 2008-06-30 06:20:06 UTC
From: C. Beijersbergen
Topic: 109 Message: 110

Hello Adam,

Take a look at:
http://www.swdxer.co.nr/

enter and then go to "a great short wave loop". You will find a DIY description of the type of loop you are talking about.

regards,

Cor Beijersbergen van Henegouwen

112. Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-06 03:09:59 UTC
From: Lee Moore (Gimbert)
Topic: 112 Message: 112

Hi Folks.

I have just built a 10ft circumference loop with 8 turns circa 80ft + 1 turn for the coupling loop, all enclosed in a 5/8" plastic waste tube with Tee piece joint and 365pf variable cap but the single turn coupling loop didn`t want to work so out it came and i made up a small coupling loop inside the large loop; magloop style.

That seemed to work ok but i was sure i could couple more efficiently and so i dragged out an Amidon FT114-J toroid core (very good response on the long and medium wave to about 20mhz) and wound on 4 turns of 22 gauge enamelled wire, i then unsoldered the connection to the moving vanes of the variable cap and slipped the toroid over the lead and re-soldered the lead back to the variable cap and then tuned around and Voila!! ... just as if i had fitted a preamp now all it needs is an actual preamp and i have an active antenna that will mount outside as all the loops are enclosed and waterproof!!

Have tried a professional enclosed loop and i find my home brew to be equivalant in performance into my Winradio G305i Software defined Radio - not as good as the EWE antenna outside but i can null out stations by simply rotating the loop by hand!! whereas, my EWE is directional due East and not movable easily!!.

Also built a 1 metre diameter untuned 3/8th inch copper microbore tube loop which was a magloop i built for 10 to 30mhz and used the toroid coupling and that works quite well from the 12khz VLF lower limit on my G305i to 20mhz limit of the toroid so i`ve ordered some more cores from Amidon, type FT114-43 which cover up to 30mhz and still work reasonably well down to 500khz.

Also built an untuned 5ft square 5/8 inch copper tube which also works well,it was a magloop i built for 40/80metre - disconnected the capacitor and joined the ends together after dropping a toroid coupler on the loop, only needs a preamp as the untuned loop matches in using the toroid and bandwidth is only limited by the toroid core!!

If i can figure how to post piccies, i will upload them to the group.

Regards..

Lee.

113. Re: Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-06 10:06:06 UTC
From: Lee Moore (Gimbert)
Topic: 112 Message: 113

I have added pictures to the photos section, they are only
experimental at the moment and are to be rebuilt with new
components ...

Lee...

--- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
<leemoore500@...> wrote:
>
> Hi Folks.
>
> I have just built a 10ft circumference loop with 8 turns circa 80ft
+
> 1 turn for the coupling loop, all enclosed in a 5/8" plastic waste
> tube with Tee piece joint and 365pf variable cap but the single
turn
> coupling loop didn`t want to work so out it came and i made up a
> small coupling loop inside the large loop; magloop style.
>
> That seemed to work ok but i was sure i could couple more
efficiently
> and so i dragged out an Amidon FT114-J toroid core (very good
> response on the long and medium wave to about 20mhz) and wound on 4
> turns of 22 gauge enamelled wire, i then unsoldered the connection
to
> the moving vanes of the variable cap and slipped the toroid over
the
> lead and re-soldered the lead back to the variable cap and then
tuned
> around and Voila!! ... just as if i had fitted a preamp now all it
> needs is an actual preamp and i have an active antenna that will
> mount outside as all the loops are enclosed and waterproof!!
>
> Have tried a professional enclosed loop and i find my home brew to
be
> equivalant in performance into my Winradio G305i Software defined
> Radio - not as good as the EWE antenna outside but i can null out
> stations by simply rotating the loop by hand!! whereas, my EWE is
> directional due East and not movable easily!!.
>
> Also built a 1 metre diameter untuned 3/8th inch copper microbore
> tube loop which was a magloop i built for 10 to 30mhz and used the
> toroid coupling and that works quite well from the 12khz VLF lower
> limit on my G305i to 20mhz limit of the toroid so i`ve ordered some
> more cores from Amidon, type FT114-43 which cover up to 30mhz and

> still work reasonably well down to 500khz.
>
> Also built an untuned 5ft square 5/8 inch copper tube which also
> works well,it was a magloop i built for 40/80metre - disconnected
the
> capacitor and joined the ends together after dropping a toroid
> coupler on the loop, only needs a preamp as the untuned loop
matches
> in using the toroid and bandwidth is only limited by the toroid
core!!
>
> If i can figure how to post piccies, i will upload them to the
group.
>
> Regards..
>
> Lee.
>

114. Re: Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-06 22:18:52 UTC
From: Hiram
Topic: 112 Message: 114

Lee,
What a cool design! Have you found the toroid to work better than the
traditional coupling loop? Nice pics, thanks for putting them up!

Pappy Hiram

--- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
<leemoore500@...> wrote:
>
> I have added pictures to the photos section, they are only
> experimental at the moment and are to be rebuilt with new
> components ...
>
> Lee...
>
>
> --- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
> <leemoore500@> wrote:
> >
> > Hi Folks.
> >
> > I have just built a 10ft circumference loop with 8 turns circa 80ft
> +
> > 1 turn for the coupling loop, all enclosed in a 5/8" plastic waste
> > tube with Tee piece joint and 365pf variable cap but the single
> turn
> > coupling loop didn`t want to work so out it came and i made up a
> > small coupling loop inside the large loop; magloop style.
> >
> > That seemed to work ok but i was sure i could couple more
> efficiently
> > and so i dragged out an Amidon FT114-J toroid core (very good
> > response on the long and medium wave to about 20mhz) and wound on 4
> > turns of 22 gauge enamelled wire, i then unsoldered the connection
> to
> > the moving vanes of the variable cap and slipped the toroid over
> the
> > lead and re-soldered the lead back to the variable cap and then
> tuned
> > around and Voila!! ... just as if i had fitted a preamp now all it
> > needs is an actual preamp and i have an active antenna that will
> > mount outside as all the loops are enclosed and waterproof!!
> >
> > Have tried a professional enclosed loop and i find my home brew to
> be

> > equivalant in performance into my Winradio G305i Software defined
> > Radio - not as good as the EWE antenna outside but i can null out
> > stations by simply rotating the loop by hand!! whereas, my EWE is
> > directional due East and not movable easily!!.
> >
> > Also built a 1 metre diameter untuned 3/8th inch copper microbore
> > tube loop which was a magloop i built for 10 to 30mhz and used the
> > toroid coupling and that works quite well from the 12khz VLF lower
> > limit on my G305i to 20mhz limit of the toroid so i`ve ordered some
> > more cores from Amidon, type FT114-43 which cover up to 30mhz and
> > still work reasonably well down to 500khz.
> >
> > Also built an untuned 5ft square 5/8 inch copper tube which also
> > works well,it was a magloop i built for 40/80metre - disconnected
> the
> > capacitor and joined the ends together after dropping a toroid
> > coupler on the loop, only needs a preamp as the untuned loop
> matches
> > in using the toroid and bandwidth is only limited by the toroid
> core!!
> >
> > If i can figure how to post piccies, i will upload them to the
> group.
> >
> > Regards..
> >
> > Lee.
> >
>

115. Re: Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-07 02:15:59 UTC
From: Lee Moore (Gimbert)
Topic: 112 Message: 115

Hi Pappy.

Well I find the toroid better!!

The green loop (10 foot circumference) was originally a magnetic loop for 10-30Mhz (which has allowed me to work stateside on 17 Meters using 10watts SSB) using a 1/5th size coupling "Faraday" loop which worked very well so i tried it as an untuned loop by removing the variable capacitor and bridging the gap to close the loop ...

I read somewhere about coupling using a toroid so i tried it on my other large magloop (20 foot circumference) on 80 meters and gained about 2-3 `S` points on receive !! so i transferred the toroid to the smaller green untuned loop and gained the same amount, plus, i was able to tune down to 12khz lower limit up to 20Mhz on the receiver ... Great!!

Now i`m waiting for some wider bandwidth cores from Amidon so i can listen up to 30Mhz - The receiver covers 12Khz to 1800Mhz!!

Lee.

--- In gccloopantennadesign@yahoogroups.com, "Hiram" <daveleb55@...> wrote:
>
> Lee,
> What a cool design! Have you found the toroid to work better than the
> traditional coupling loop? Nice pics, thanks for putting them up!
>
> Pappy Hiram
>
>
>
> --- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
> <leemoore500@> wrote:
> >
> > I have added pictures to the photos section, they are only
> > experimental at the moment and are to be rebuilt with new
> > components ...
> >
> > Lee...
> >
> >
> > --- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"

> > <leemoore500@> wrote:
> > >
> > > Hi Folks.
> > >
> > > I have just built a 10ft circumference loop with 8 turns circa
80ft
> > +
> > > 1 turn for the coupling loop, all enclosed in a 5/8" plastic
waste
> > > tube with Tee piece joint and 365pf variable cap but the single
> > turn
> > > coupling loop didn`t want to work so out it came and i made up
a
> > > small coupling loop inside the large loop; magloop style.
> > >
> > > That seemed to work ok but i was sure i could couple more
> > efficiently
> > > and so i dragged out an Amidon FT114-J toroid core (very good
> > > response on the long and medium wave to about 20mhz) and wound
on 4
> > > turns of 22 gauge enamelled wire, i then unsoldered the
connection
> > to
> > > the moving vanes of the variable cap and slipped the toroid
over
> > the
> > > lead and re-soldered the lead back to the variable cap and then
> > tuned
> > > around and Voila!! ... just as if i had fitted a preamp now all
it
> > > needs is an actual preamp and i have an active antenna that
will
> > > mount outside as all the loops are enclosed and waterproof!!
> > >
> > > Have tried a professional enclosed loop and i find my home brew
to
> > be
> > > equivalant in performance into my Winradio G305i Software
defined
> > > Radio - not as good as the EWE antenna outside but i can null
out
> > > stations by simply rotating the loop by hand!! whereas, my EWE
is
> > > directional due East and not movable easily!!.
> > >
> > > Also built a 1 metre diameter untuned 3/8th inch copper
microbore
> > > tube loop which was a magloop i built for 10 to 30mhz and used
the
> > > toroid coupling and that works quite well from the 12khz VLF

lower
> > > limit on my G305i to 20mhz limit of the toroid so i`ve ordered
some
> > > more cores from Amidon, type FT114-43 which cover up to 30mhz
and
> > > still work reasonably well down to 500khz.
> > >
> > > Also built an untuned 5ft square 5/8 inch copper tube which
also
> > > works well,it was a magloop i built for 40/80metre -
disconnected
> > the
> > > capacitor and joined the ends together after dropping a toroid
> > > coupler on the loop, only needs a preamp as the untuned loop
> > matches
> > > in using the toroid and bandwidth is only limited by the toroid
> > core!!
> > >
> > > If i can figure how to post piccies, i will upload them to the
> > group.
> > >
> > > Regards..
> > >
> > > Lee.
> > >
> >
>

116. Re: Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-07 03:01:17 UTC
From: John Popelish
Topic: 112 Message: 116

--- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
<leemoore500@...> wrote:
(snip)
> Now i`m waiting for some wider bandwidth cores from Amidon so i can
> listen up to 30Mhz - The receiver covers 12Khz to 1800Mhz!!

Lee, have you tried any cores from Steward in the HF material? These
are quite low cost and sold as EMI suppression beads for cables, but
they have a pretty good high frequency capability (still more
inductive than resistive at 300MHz, I think).

http://www.lairdtech.com/downloads/SIP-CAT-46-1107.PDF

Most have a lot longer form than ordinary toroids, so they need fewer
turns to develop similar inductance. Unfortunately, I don't know who
distributes then in the U.K., but Digikey has a nice selection in the
U.S. and Canada.

--
Regards,

John Popelish

117. Re: Newb - Enclosed Loop

Yahoo group: gccloopantennadesign
Date: 2008-09-07 10:05:52 UTC
From: Lee Moore (Gimbert)
Topic: 112 Message: 117

Thanks John.

Interesting info i`ll have a good study later, there doesn`t appear
to be a UK outlet but there is one in Germany apparently...

Thanks again.

Lee.

--- In gccloopantennadesign@yahoogroups.com, "John Popelish"
<jpopelish@...> wrote:
>
> --- In gccloopantennadesign@yahoogroups.com, "Lee Moore (Gimbert)"
> <leemoore500@> wrote:
> (snip)
> > Now i`m waiting for some wider bandwidth cores from Amidon so i
can
> > listen up to 30Mhz - The receiver covers 12Khz to 1800Mhz!!
>
> Lee, have you tried any cores from Steward in the HF material?
These
> are quite low cost and sold as EMI suppression beads for cables, but
> they have a pretty good high frequency capability (still more
> inductive than resistive at 300MHz, I think).
>
> http://www.lairdtech.com/downloads/SIP-CAT-46-1107.PDF
>
> Most have a lot longer form than ordinary toroids, so they need
fewer
> turns to develop similar inductance. Unfortunately, I don't know
who
> distributes then in the U.K., but Digikey has a nice selection in
the
> U.S. and Canada.
>
> --
> Regards,
>
> John Popelish
>

121. OT: My list of Yahoo Groups :)

Yahoo group: gccloopantennadesign
Date: 2008-12-20 03:00:00 UTC
From: Daniel Davidson
Topic: 121 Message: 121

Hi,

You can see a list of my groups on Grouply at the link below. Maybe you'll find some you want to join.

Daniel

Here's the link:
http://www.grouply.com/register.php?tmg=2282189&vt=32999117

==========
This message was posted by a fellow group member who uses Grouply instead of email to access this group. Grouply blocks additional invitations from being sent to this group by anyone for 30 days. Group owners can permanently block future invitations. For more on how Grouply maintains privacy and protects you, see http://blog.grouply.com/protect/ .

122. Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-21 01:23:11 UTC
From: pruitt.david@att.net
Topic: 122 Message: 122

Why do they have to be square. Why not round?

123. Re: [gccloopantennadesign] Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-21 22:56:21 UTC
From: John Popelish
Topic: 122 Message: 123

pruitt.david@... wrote:
> Why do they have to be square. Why not round?

Who said they have to be square?

--
Regards,

John Popelish

124. Re: Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-22 01:45:42 UTC
From: Hiram
Topic: 122 Message: 124

Because Pi R Squared..... sorry, couldn't resist.

But in answer to your question, the differences between different shapes, such as square, round, hexagonal, octagonal are slight, build whatever is convenient with the materials you have at hand.

Pappy Hiram

--- In gccloopantennadesign@yahoogroups.com, "pruitt.david@..." <pruitt.david@...> wrote:
>
> Why do they have to be square. Why not round?
>

125. Re: Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-23 09:15:32 UTC
From: gmcjetpilot@yahoo.com
Topic: 122 Message: 125

I don't recall where I read it, but people have experimented and round seems to be best, most efficient. The shape of the loop does affect the performance, but as the others said convience more than performance. The hub and spoke method with 6 or 8 spikes approximates a circle. However if you want the optimal a circular loop is best, just harder to build unless you have a round frame.

126. Re: [gccloopantennadesign] Re: Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-23 14:58:51 UTC
From: aimo ruoho
Topic: 122 Message: 126

Hi folks.

Nice to read some thoughts here, too.

About the round or circular Loop Antenna for
recieving purposes: two or 3 (or more) hula hoop
loops glued (or taped)together to form one loop
would be broad enough and rather light to carry
as many wires as needed to form a MW/AM Loop.

They might be covered with some strong material
to make the outer plane broad, flat and strong
enough to keep the wire(s) steady and far enough
from each other. I have to build one in the near
future to test this new idea of mine, because I
happened to buy a few hhloops for some years
ago, probably because they were so cheap (?).

It might make some view to admire for my
neighbors, especially high on my roof used with
my rotator, turning 360 degrees forth and back in
the evening sunshine...

73 and nice homebrewings!

Aimo

De: "gmcjetpilot@..." <gmcjetpilot@...>
Para: gccloopantennadesign@yahoogroups.com
Enviado: viernes, 23 de enero, 2009 10:15:32
Asunto: [gccloopantennadesign] Re: Square loop antennas

I don't recall where I read it, but people have experimented and round seems to be best, most efficient. The shape of the loop does affect the performance, but as the others said convience more than performance. The hub and spoke method with 6 or 8 spikes approximates a circle. However if you want the optimal a circular loop is best, just harder to build unless you have a round frame.

127. Re: Square loop antennas

Yahoo group: gccloopantennadesign
Date: 2009-01-23 03:05:22 UTC
From: pruitt.david@att.net
Topic: 122 Message: 127

In gccloopantennadesign@yahoogroups.com, John Popelish <jpopelish@...>
wrote:

> Who said they have to be square?
>

It's just that every DIY article on loop antennae tells you how to
build a square antenna. Though it didn't make any sense, I was
beginning to think maybe there were some performance advantages to
square antennas. Thanks for answering my question.

Next question; is the plural for radio reception equipment the
entomological antennae or just straight forward antennas?

128. 40 meter mag loop

Yahoo group: gccloopantennadesign
Date: 2010-02-17 18:02:33 UTC
From: GeorgeG
Topic: 128 Message: 128

I am looking for plans to build a good 40 meter mag loop. Something I can take in my truck camper. 73 George/W2BPI

129. Navtex antenna

Yahoo group: gccloopantennadesign
Date: 2011-02-21 16:30:20 UTC
From: Latitud39
Topic: 129 Message: 129

Hi guys. I would like some help for navtex antenna (518khz). Please diagrams, measures, materials. Thanks in advance.
Virgilio
YV5VA

130. Introduction

Yahoo group: gccloopantennadesign
Date: 2012-04-08 14:29:39 UTC
From: William Young
Topic: 130 Message: 130

I'm new member Bill Young, WD5HOH. I was first licensed as KN5DNM back in about 1954. I now receive only; I don't transmit. I can't have an outdoor antenna, so loop antennas work well for me. I have just completed a two winding tuned loop with a tuning range from 390kHz to about 750kHz. I am interested in the new 472 kHz to 479 kHz amateur band. The most interesting part of the design of this two winding loop was calculating the coefficient of coupling between the two windings using information found in Radio Engineers' Handbook by F. E. Terman(1943). I took some liberty in applying his equations with encouraging results. I have my new loop partially hidden behind the bookcase my son and some of his cohorts built in shop class years ago. The tuning capacitor for the tuned loop is on my operating table and is connected to the tuned winding by a six foot run of coax bought on ebay. Bill Young WD5HOH

135. 2.5-25KV BUTTERFLY CAPACITOR KIT VA6POP

Yahoo group: gccloopantennadesign
Date: 2013-10-15 15:28:20 UTC
From: <pop_vasile@...>
Topic: 135 Message: 135

2.5-25KV BUTTERFLY CAPACITOR KIT VA6POP I can build for u any air variable capacitors kits
https://www.youtube.com/watch? v=thw0RLOh6zM https://www.youtube.com/watch?v=thw0RLOh6zM
www.youtube.com/watch?v=fV- FWFQO6As http://www.youtube.com/watch?v=fV-FWFQO6As
www.youtube.com/watch?v= dmZxgmalP9g http://www.youtube.com/watch?v=dmZxgmalP9g
http://forums.qrz.com/ showthread.php?351604- Butterfly-capacitor-kits-5- 15kv
http://forums.qrz.com/showthread.php?351604-Butterfly-capacitor-kits-5-15kv
http://www.flickr.com/photos/ 93005502@N08/page3/
http://www.flickr.com/photos/93005502@N08/page3/ http://forums.qrz.com/
showthread.php?378701-2-5- 15kv-butterfly-capacitor-kits& p=\
http://forums.qrz.com/showthread.php?378701-2-5-15kv-butterfly-capacitor-kits&p=%5C
2764980#post2764980 http://groups.yahoo.com/group/ loopantennas/photos/album/
1355109643/pic/list
http://groups.yahoo.com/group/loopantennas/photos/album/1355109643/pic/list
http://groups.yahoo.com/group/ loopantennas/photos/album/ 1356390600/pic/list
http://groups.yahoo.com/group/loopantennas/photos/album/1356390600/pic/list I have kits:
2.5" OD ROTOR 3" OD ROTOR 4" OD ROTOR 5" OD ROTOR 6" OD ROTOR 8" OD ROTOR
10" OD ROTOR
VA6POP yo5bzz(at)gmail.com http://gmail.com/

136. H-Field and B-Field Loop Antenna Design

Yahoo group: gccloopantennadesign
Date: 2016-05-16 18:08:24 UTC
From: gccradioscience@...
Topic: 136 Message: 136

What do I need to do when making a H-Field or B-Field Loop Antenna? I have to build me a VLF Natural Radio receiver that requires a H-Field or B-Field loop antenna? How many turns would I need to build one?

Also what size would I need for this?

Adam Ebel
Virginia Beach, VA